



AZIN

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Contonte for May

Thurstee the month's say, "The Organic Zee", by H. O.
Wold: The is a supposed were of the planet Mars, as viewed
by Mr. Care thereof the Crystal Eas, from the certh.

ODPTRIBHT ACKNOWLEDGMENT
"Old on a Court", and "A Toly as the Cause of the Earth" by

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THE MARKS OF THE STATE OF THE S

THE CENTRIES ADDRETURES OF MR. POOL DECK, by Jack Magne Package year of a set how in June 1982. On the Mr. Package Package year of the selections of the Mr. Package of the Mr. Package

In Our Next Issue:

STOCKER HACKENSAW'S SECRETS", by Classest

Count').
Another weird every by Edgar Allan Poe, which we not seen you will like.

personnel an armed variety of the control of the co





THE MAGAZINE OF

MAY, 1925 NO. 2

HUGO GERNSBACK, F.R.S., Editor
DR. T. O'CONOR SLOANE, M. A., Ph.D.; Austine Editor

CIENTIFICTION

Editorial and General Offices - - 33 Pack Place, New York, N. Y.

THANK YOU!

By H

El first inne of AMAKING S
his bein on the agreements of press with
a week, so we go to press with
second issee of the magazine,
during this short time, we h

deleged with an evaluate of a
oppreval and contractive extrinsing from a

during this short time, we have been approval and contractive critisian free particulty approved and constructive critisians free particulty approved and contractive critisians free particulty approved the state of the state o

After all, it is your paper, and we are stricting hard to please you. Judgmer from the various conments, the first sense of ARAZING SYORIES was just about right—the storage pleased and the length of the storage after a dress and the division of the long once occured satisfactory.

And it was with a fealing of gratification that was

And it was with a forling of protification that we covered the chosen inclusions are contentration of the contentration of the match in veges in this country now. Both of our correspondents seemed to heave a great sliph of realist in a last finding a literature that appeals to the insegration of the contentration of the co

NOW, seem to best expense the general treed of optimization.

We Anderson, of Pairmonet, W. V. in addition to giving us a good suggestion, exps.

"Print all ownering in a good suggestion, exps.

"Print all ownering facts as related in the sheet in thinker. This will care to more forestilly drivents the files upon which you have established years magnifus. Persentially when I have seem such ay term before the files of the state of the sheet of

massing Stories is entertaining and has food for thought that no other fittion work could begin to compete with.³ Raymond E. Dickens, Air Mail Radio Station, Iowi City, Iowa, ayar:
³ Can read those stories over several times SEACE, F.R.S. and each time get something new from them."
Mathed H. Rey, Brooklyn, N. Y., cays: "You will
generally find that white one has read your temperature
discovery, that he will desir it a pheasure to said I lie
virtues to his friction. Byon new my wife is
agreemely welfing for me to frink that first issue, so

that she may read at benefit?

As to the ferrors: Some very wheaths suggestion chimistry.

As to the ferrors: Some very wheath suggestion of the ferrors: Some very whole the ferrors of the position of the ferrors of the ferrors

story—one of the fixed that has ever been written "Stateou X.", by G. MacLecol Winney." "The Messian of the Cydnader", by Victor Reusseas is another tremendess story, and then, course, there is H. G. Wells, with his "The War to the Air."

There is only one thing that troubles us row: we have more good calcient to guidable have when you have more good calcient to guidable have when you have more good to be below. The property was to be the property of the pr

ourselves to do everything

A TRIP to the CENTER of the EARTH



impossible for me to answer a stagle word. The evidence was unconversible, energiclesing)

Introduction to the Story

In rapid succession several truly santarily tales.

"A Trip is the Coster of the Events rose the front to be considered in the succession of the Events rose the front to be completed in this presents force. B sees positions in 1864, in a cerian of books by Verne, denominated "Vogages Extraorinania". This serias, started in that year by the publisher Helsel, kan been continued that year by the publisher Helsel, kan been continued.

This particists? "Voyage" this assistance oces declared over antiber's searcherpiece. In it is be for the first time gives free role to that bold yet releastfeed by smot inagunation solvenity be has constructed for as in facey the extire variourse. There is nothing to all the during visious of this tale whick, easy

interior of the cort in still unknown; and there may seed be rift, passages, descending from extinct toloruse on openituding for weather. There was seed be super-ceiting for weather. There was seed be super-ceiting, but weather the cooling as man, mist ensugh to hardwr inland sons, and shelter many of the uniform forms of life news actions upon earlier surpluse.

The main settential abstration to this, as undend to

many of the smelest forms of life was activat upon carthy varface.

The main scientific objection to this, as undeed to most of the wave functive of Vermie take, like in most of the wave functive overloops to bring his caphorers know again, from their recities sentimes. But, as resumes obviously domains their return

netensking accidents and contridences they emape the doors they have implied.

MKING back to all that has occurred to ly able to believe in the reality of my adventures. They were truly so wonadventures. They were truly so won-

when I think of them. My uncle was a Germon, though I am English, he having married my nother's syster. Barne vers

me to study under him in his home in the fatherland. This home was in a large town, and my uncle was a professor of philosophy, chemistry, geology, mineralogy, and many other ologics. One day, after passing some hours in the laboratory-ray uncle being absent at the time-I sud-

dealy felt the processity of recovering the tissues old French cook, when my uncle, Professor Von

Hardwice, suddenly spened the street door and came rushing upstairs. Now Professor Hardwigg, my worthy uncle, is

ebey; and scarcely had than he shouted for mo

to attend upon him. "Harry-Harry-Harry I hastered to obey, but room, jumping three steps at a time, he was stamp-

ing his right foot upon the landing, "Harry!" crief, in a frantic tone, To tell the truth, at that moment I was for more

interested in the opestion stitute our dinner than in esting than sodium, an orselette more tempting articholes of ten times more value than any

He was a very learned

in this category supply themselves with informaothers, and lay un stores in order to diffuse them so my excellent uncle. Professor Hardwire: he studied, he consumed the midnight off, he noved over heavy tomes, and digested huge quertos and folios,

N his immercal story, "A Trib to the Center of the

cally not lake Verse a matter of the magnetive type of felice, but he man a research of ingle callers. Business this, like imposts inconfology of pragraphy, the customs

lastral of boring a hale into the bosor's of the earth

trees, weers many of their are a spec and other highs-going organs. useful article, that a company was said in his presence to have made considerable deviation.

attracted to my uncle's nose was tolucco. stanged a ward at a time, clenshed his fats as if he were eater to hit you and was when in one of his

stammered, and witen intent upon explaining the phenomena of the heavens, was ant to dod himself at fank, and allude in such a vague way to sun, moon, and store, that few were able to comprehend his meaning. To tell the honest truth, when the almost unprencunceable names—names vary much resembling those of Welsh villages; and my uncle being year fond of using them, his hebit of stars-

learning more than was absolutely necessary; be

mering was not thereby improved. In fact, there were nertices in his discourse when he would finally give up and swallow his discomfiture-in a glass of

As I said, my uncle, Professor Hardwige, was a pery learned man; and I now add, a most kind

volstice. I was bound to him by the double ties of affection and interest. I took deep interest in all his doings, and hoped gome day to be almost as rare thing for me to be

Like him, I professed mineralogy to all the was to gain real Assess! edge of the earth. Geology and mineralogy were to us the rasin objects of

life, and in connection with these studies many a fair apacimen of atone, chalk, or ore did we break with our ham-But before I state the

his personal appearance. of him at a future timeafter be has gooe through

old: tall, thin, and work, certain extent, his vast, while his nose was frreverently compared to a thin file. So much inpscaliter himore, very far from a pleasant entropy.

It is rurcher accountry to observe, that he lived in the properties of a town, it was perfectly rural in its aspect—shalf wood, half britas, with elek-fanking gables—one of the few did houses pared by the great free of libid. When I says are thouse, I man in hind-order libid. When I says are thouse, I man in hind-order libid. When I says are thouse, I man in hind-order libid.

able to English netions: a house a little off the perpendicular and inclined to full mate the suightening canal; exactly the house for a wandering active to depart; all the save that you could scarcely not if for loy and a magnificant old tree which grow over the door. My artic was rich; his house was his own prop-

over the door.

My untle was rich; his house was his own preyearly, and he had a considerable private income. To my notion the bast part of his passassions was his god-daughter, Gretchen, who infortunately was nawny upon a visat on that accommons day. The

old cook, the young indy, the Professor and I were the only immates of his herris.

I loved muraculay, I leved geology. To me there was nothing better than publics—and if my uncle had been in a little leve of a fury, we should have been the happent of families. To prove the excellent Hardward immediates.

that what the flowers in the drawing-room joint began to grow, he raw every morning at four clock to make them grow quicker by pulling the leavest. Having deocribed my uncle, I will now give an account of our interview. He received me in his study; a parfect messum, containing every astural study; a parfect messum, containing every astural

ever, predeminating. Every one was familiar to me, having estalogued each by my own hand. My uncle, apparently oblivious of the fact that he had summand me to his presence, was sharrhed in a book. He was particularly fond of early editions, tall confer, and unforce works.

"Womahershit" be cried, tapping his forehead.
"Womahershit" be cried, tapping his forehead.
"Womahershit" he cried, tapping his forehead.
"Womahershit he cried for the stall, and to me if appeared to pomens had fittle value. My much, however, was in regularies. He desired its binding, the clearmen of its characters, the case with which it council in his hand, and arreseated

alout, half-a-dezen times, that it was very, vary eld.
To my fancy be was making a great face about nothing, but it was not my province to cay so. On the contrary, I preferace considerable sintenest in the subject, and asked him what it was about.

The anoper, and almod mm what it was about.
"It is the Bisine-Krugis of Shorte Struphenous," he said, "the celebrated Leshandis author of the twelfth said," the celebrated Leshandis author of the twelfth century—the last true and cerect anount of the Norwegian princes who reigned in Iceland."

My next question related to the language in which it was written. I hoped at all events it was translated into German. My usels was infirmant in translated into German. My usels was infirmant in

the very thought, and declared he wouldn't give a peany for a translation. His delight was to have found the original work in the Irelandic tongon, which he declared to be one of the mest magniferent and yet simple idions in the world—while at the same time its grammatical combinations were the "About as easy as German?" was my insidious mark, My once shrugged his shoulders, "The Euric letters at all events." I said "NFF.

"The Rundo letters at all events," I said, "are rather difficult of comprehension."
"It is a Rundo manuscript, the language of the criptual resolution of Induction impossed by Olla-

"It is a non-managery, the indigence or original population of feelind, invented by Olin hamself," cried my unite, eagry at my ignisease. I was about to venture upon some misplated yiele on the subject, when a small screp of pareleasest feel out of the latera. Like a hanry men mething at a nonrel of bread the Prefender seized it. It was about five inplies by there and was aerawled over about five inplies by there and was aerawled over

The lines opening the next chapter are an emitfacilitie of what was written on the venerable piece of perchantit—and have wonderful importance, as they futured my unds to undertake the most was derful series of adventures which over fell to the

derial series of advantures which ever fell to the bot of human beings. My uncle lecked locally at the document for some mercent then declared that it was Runie. The letters were similar to those in the book, but then

letters were similar to those in the book, but then what did thay mean? This was exactly what I wanted to know. Now, as I had a strong convection that the Bunic alphabet and disfect were simply an invention to mystify peer human nature, I was delighted to find

I dis—which was nothing. At all events, the tremmbes notice of he fingers made me think so, "And yet," he muttered to hisself, "I is old leclardic, I am sure of it." My unde cought to have knows, for he was a parfect polypic dictionary in himself. He side not covicted, like a certain learned modific to enach

iddense made use of in different parts of the gibbs, but he did know all the more important case. It is a matter of great doubt to me now, to what violent measures my unafe's impet socity might have lid him, had not the clock struck two, and our old French cook called out to let us know that dinner

volum measures my untry supercostly might have 15d hms, had not the clock struck two, and sure old French took called out to let us know that dimer was on the table. "Bother the dimer?" oried my uncle. But I was hungry, so I sallied forth to the draing-room, where

I took up my usual quarters. Out of politescan it waited three minutes, but no ten of my unoh, the Professor. I was surpressed. He was not usually so make the professor. I was surpressed. He was not usually so make the surpressed of the professor of the surpressed of the surpressed

partitionit, my usels forbore to there our meal. To antialy my conscience, I ale for both.

The old cook and housekeeper was nearly out of her mind. After taking so much trouble, to find that her master did not appear at denser was and disconceintment—which as she workshel the haver I

was making on the viands, became also sharm. If hay unch were to come to table after all? Suddenly, just as I had consumed the last apple and drank the hast gives of wine, a terrible voice

and draink the last gizes of wine, a terrible was heard at no great destance. It was my rearing for me to come to him. I made it in season or to prove the force may his tone.

A TRIP TO THE CENTER OF THE BARTH his spectacles, and, taking a powerful magnifying

THE MYSTERIOUS PARCHONENT YILLNA *HJ+N+N HEEFTHA KIT PATT FRH1YN La shaah 1721744 NO 1+YA 441141 41011A AHYAY 110 201

effaced by time. This was what he sought. After 1444 411111444 "Arns Saksussers!" he eried in a forcus and triumphant tone, "that is not only an Icelandic

glass, examined the book carefully. On the fly lead

b4,141 EH41Bb Y+biil occure," crust my uncle, striking the table

name, but the name of a learned professor of the I howed as a sign of respect. "These alchemists," he continued, "Avicana,

which I must get at, at any price." I was about to reply, when he stopped me. "Sh down," he sand, quite forcely, "and write to my I obeyed. "I will substitute," he said. "a letter of our siphatet for that of the Runs; we will then

Baces, Lully, Purscellus, were the true, the only learned man of the day. They made surgetung discoveries. May not this Sakrussers, nephew wine. have bidden on this bit of partiment some astounda profound meaning-which I must make out." My uncle walked about the room in a state of ase what that will produce. Now, burin and make environment almost impossible to describe.

The dictation commenced with the following inzerolde

> gralSa. ieazòs.

"It may be so, sir," I timidly observed, "but why "Why-how should I know? Did not Golifso males a secret of his discoveries in connection with Seturn? But we shall see. Until I discover the

Scarcely giving me time to finish, my uncle "I should like to know what it means," he said, after a long period. I certainly could not tell him nor did he expert

"My dear uncle——" I begun. "Nor you either," he added. It was lucky I had taken double allowance that day, "In the first place," he continued, "there must be rest would be easy enough."

"I declare it puts me in mind of a cryptograph," he cried, "unless, indeed, the letters have been written without any real mouning; and yet why take so much trouble? Who knows but I may be My randid opinion was that it was all rubhish! But this coinion I kent carefully to myself, as my time he was comparing the book with the parch-

I began seriously to reflect. The proppert of going without feed and sleep was not a premising one, so I determined to do my best to solve the mystery. My uncle, meanwhile, went on with his "The way to discover it is easy enough. In this

"The manuscript volume and the smaller document are written in different hands," he said, "the eryptograph is of much later date than the hook; twelfth century-this makes the parchment two The circumstances appeared very probable and

yowels. This is about the proportion found in most appthern hinguages, the iditions of the north being predict, therefore, that we have to deal with a "Now," said Professor Hardwigg, "to trace the

"To ree it appears probable that this sentence was written by some owner of the book. Now who hans by great good luck it may be written somewhere in the volume." With these words Professor Hardwigg took off

"As Shekesteere soys, "but is the question!" was my rather antirical reply. "This man Sakaussem," he continued, "was a very learned man; now as he did not write in the inneugoe of his hirth-place, he probably, like most even Hebrew. My own opinion, though, is decidedly This promotition startled me. Latin was my favorite study, and it seemed sacrilege to believe

this eitherish to belong to the country of Virgil. "Barbarous Latin, in all probability," continued "Nery probably," I replied, not to controlled ham.
"Lat us use from the matter," continued my morb;
"have you see we have a series of one handred and
furty-froe laters, appearent; brown pell-red ignopaper, without notified or organization. There are
worth which are entoposed while; of encounter,
which are composed while; of encounter,
the fifth, for instance, which is watered, and one of
the following. This appears are extraordinary contransion. Probably we final find that the phono is
arranged according to some mathematical plan. No

is the clear. Now, Entry, to show your finguish wit—what is that dignor?

I could give him no hist. My thoughts were moded for accor, White he was speaking it had not consider the country. White he was speaking it had and was weathering when she would return. We were efficiented, and loved one author very sincardy. But not uncertainty and the country of the country of the country man and the country of the c

some theory of his own. Presently, reasing my wandering attention, he dictated one precious attempt to make the control of the control of 1 milds handed it over to him. It read as

meneminaSenrA. terfdoK. reputtaments coorterrette, roteinsudam, elucco electus lacertuffilis feinstres Serfomatohlednek meretarcollussislef en Sul. I could narroly loop from laughting while me

t of the house and thun taking to his heels wa esently lost to sight.

CHAPTER III

CHAPTER III AN ASTUUNDENG BISCOVERY

"W HAT is the matter?" cried the cook, extering the recen; "when will master have his dimer?"

"And, his support"
"I den't know. He says he will sat no more, neither shall L. My uncle has determined to fast and make me fast until he reads this abominable.

inceription," I replied.
"You will be starved to death," she and.
I was very much of the same opinion, but not liking to say so, such her away, and began seem of my usual work of chastications. But bury as I mode my usual work of chastications. But bury as I mode mount, mething could keep me from thinking at

retoken.

Several times I was tempted to go out, but my
nels would have been sugry at my absence. At the
nd of an hurr, my allotted task was done. How
pass the time? I began by lighting my pipe. Like
II other students, I delighted in toberce; and

seating uposif in the great armobale, I began to be lest for moditate.

Where was my uncle? I could easily imagine I we aim bearing along come softmay read, gestfeating, along come softmay read, gestfeating, and talking in himself, active the air with his come.

the executable pumals and fried every imagination, way of groups the letters. I put them tower they a tesse, by threse, fours, and fives—in wise. Nothing afficient and successful the foreigned, afficient amount out, county of the foreigned, afficient amount of the first and successful the first and successful the first and words say then filed to execut out to the first and words say then filed foreigned to find the fact of the filed to execut the filed to the filed to

and still thinking of the abourd bit of hieroglyphics.
Would be hit upon some clas? Would be some

home in better bumor? While these thoughts were

DEDON," thought I. .
Then sgall I seemed to find the word late, which means covered grow. Then in the third has I appeared to make out follows, the late of the late out follows, and the state of the late out follows, and the state of the late out follows the late of the late out follows the late of the late of the late out follows the late of the late

I was, he fact, fighting suchast on beautressentials difficulty; my beside was almost on five, my one were extrained with stating at the purchase; the whate absured outletts of letters appared to those before my vision in a number of black little groups. My mand was possessed with temporary labilities titled was stiffling. I wanted mr. Mechanically I farmed myod with the document, of which I saw first the back and then the frence. Intuition my ampriles, when glaceling at the back.

of this monstrous coyptograph?

of the wearisome puzzle, the link having gone through, I dearly made out Latin words, and among others cruterous and fervestre.

I had discovered the secret! It came upon me. Bloom finesh of lightning. I had get the class. All

read it buckwards. All the inperious these of the Professor were realized; he had discovered what he so much dealted.

My delight, my emotion may be imagined. My even were thould and I treebiled so that at feet if

systs were characted and I trembled so that at first I could make mething of it. One look, however, would tell me all I wished to know.
"Let me read," I said to myself, after drawing a hour breasth. I agreed it before ms on the table. I

hour beauti. I append it before me on the table, I passed my finger over each lotter, I spell it through in any excitement I read it out. What horees and stupefaction took passession of my soul. I was like a man who had mocived a my soul.

knock-down blow. Was it possible that I really read the terrible secret, and it had really been accomplished! A man had dured to do-what? No living being should ever know "Never!" cried I, jumping up; "Never shall my usele be made navure of the draud secret. He would be quite

eapable of undertaking the tarrible journey. Nothing would cheek him, nothing stop him. Worze, he would compel me to accompany him, and we should be host forever. No; such folly and madness carnet to allowed."

be allowed."

I were almost beside myself with rage and furp.

"My worthy uncle is already nearly mad," I cried
sixed. "This would fasted him. By some accident

A TRIP TO THE CENTER OF THE EARTH be may make the discovery, in which cose, we are My uncle continued counting

both lies. Pertis the fastful secret—bit the finance forever bury it in colimon.

I matched up book and parchanant, and was about to cat them ton the first, when the door operand and to a reclaim of the first part of the contract of the theory of the colombia and the colombia of the time which are designed in the colombia of the ware evolutily best on the terribo parchanet. Soon new confinition had provided it its thoughts were evolutily best on the terribo parchanet. Soon new confinition had provided ristories and arrectaint, and with a pen began to make an algobrated existentiant. I wanted him with auxiliant

arrechair, and with a pen began to make an signbranch esiculation. I webset him with satisfact systs. My finds crawled as his discovery of the secret became probable. I having discovered the only class, I have his combinations were usuless. For three mortal horses he continued without specking a word, without, resisting his head, scratching, rewriting, calculating over and owe again. I know that it time he must hill upon the right phrases. The letter of every highlight him only a certain number.

letters of every alphabet have only a certain number of combinations. But then years might dispose before he would arrive at the correct solution. Still time word on; global cause, the counts in the streets reased—and still my unde went on, not swan arrawating our weethy ceed when she called us to support. I did not dare to have him, so worde her assert, and at last fell selects on the rofa.

When I awake, my natic was still at work. His red yes, his paid contreasme, his matted half, his furnith burds, his besticky faulted checks, aboved how servicibe had been his strapel with the impossible, and what fearing fathing he had undergone during that long alergies spirit. It made to quite ill to lock at him. Though he was rether sever with my, I haved him, and my heart ashed at his sufferings. He was so werecone by a flower of the sufferings. He was so werecone by the second of the sufferings. He was so werecone by the second of the suffering had been also for successful. And I know that

Syphesized on time which immediately seems by Myr hast's was, precetheless, feelining towards him. Why, then, did I remain sheat! In the lasterest of my under himself. Worklein shall make the seems of my under himself. Worklein shall make no speak, I instanced by the will work be seen as perfect victors, and to reake discovaries in this interests of geology he would associate him the statement of geology he would be statement of geology he would be supported by the statement of the statement of geology he will be supported by the statement of the statement of

arms, Nobed mother way and armiced-encodered mark to spake.

When our cook wanted to go out to market, one on any other errand, she found the frend short sketch and the key takes away. Was this done purposely or not? Surely Profusars Hardwage did not intend the old woman and myself to become markets to his abstincts will. Ware we to be starved to

tend the old woman and myself to become mariyes to his electrists will. Ware we to be starved to death? A frightful recollection came to my mind. Once we had find on bits and acreps for a weak while be sorted some carriculties. It gave me the cramp

I wanted my breakfast, and I now no way of getting it. Still my resolution held gred. I would share rather than yield. But the eoch began to take me serfoutly to task. What was to be dene? She could not go out; and I dured not.

coak had eaten the hast bit of bread. This could not so on. At two o'clock my sensations were terrible, After all I began to think the document is very absurd. Perhana it is only a gigoritic boox. Benides, some means could sarely be found to loop my uncle back from attempting any such abourd expedition. quixotic, I could not be compelled to accompany him. Another line of reasoning partially decided me Very likely he would make the discovery himself when I should have suffered storvation for nothing-Under the industrice of hunger this reasoning ap-The question now arose as to how it was to be done. I was still dwelling on the thought when be rose and put on his hat. What! go out and lock us in? Never! "Uncle," I began.

imagination seemed to have transported him to the skice. He thought neither of ceting nor drinking.

In this way twelve o'clock came around. I was

hungry, and there was nothing in the boune. The

"Uncle," I began.
He did not appear even to hear me.
"Professor Hardwigg," I cried.
"What," he retored, "did you speak?"
"How shout the key?"
"What key—the key of the door?"
"No...of those her?" his histochynics."

He looked at me from under his spectacles, and the looked at the old expression of my face. Reaking forward, he clutched me by the arm and locally exzerized my counterance. His very look was as interception. I shappy noded. With an incredators share of the shoulders, he turned upon his heel. Undoubtedly he thought I

"I have made a very important discovery."

If a eyes fluided with excitement. His hand was
lifted in a mensaling stitude. For a moment
neither of us spoke. It is hard to say which was
most excited.

"You don't mean to say that you have any idea of
the missing of the servail."

of the second se

In Sucfels lossific createres han delebet Unitra Scaptures Julia intra calendar dissende Audas vintor, et terrestre contrass attinges. Red feet. Arms Salmanorn.

Andas victor, et terrestre centrum attinges.

Kod feel. Arne Salenseen.
Which dog-Latin being translated, read as follows: "Decornd into the cruter of Yeksal of Sauffelis, which the shade of Seartaris covers, before the

reach the center of the corth. I did it.

"ARNO SAKNUDSEM."

My uncle leaped three feet from the ground with
ice. He looked radiant and hundsome. He rushed

My uncle leaped three feet from the ground with jey. He looked radiant and hundrens. He rushed about the room wild with dalight and satisfaction. He knocked over tables and chairs. He threw his

G STORIE

the map,

books glocal until at hair utterly exhausted, he full into be serve-dome. "What's orbical?" he alked.
"About three."
"My diamer does not seen to have done see much good," he observed, "Let me have something to att. when the start at come. Cet my pertuantous with a grid perturbation."
White a grid hope to the centrary, I stroped event with a grid by the content at the content of the perturbation.

"What for?"

"And your own," he continued. "We start at account."

and the series of the series o

idea of goods down to the center of the earth was simply absend. I determined therefore to argue the point after dinner.

My unde's rage was now directed against the sook for having no dinner ready. My explanation, however, satisfied him, and griding her the key she

cious appetits.

During the report my uncle was respect gay than
chhewise. He made some of these peculiar jokes
which belong enrincively to the learned. As some

which belong enrincively to the learned. As some, however, as dessert was over, he called me to his atoly. We each took a chair on opposite sides of the table. "Henry" he said, in a noft and winning voice:

"I have siveny believed you ingenious, and you have readered me a service never to be forgetten. Without you, this great, this wondrous discovery would never have been made. It is my duty, therefore, to instit on your sharing the gleay."

"He is in a good harmor," thought I: "Til soon

let him know my epinion of glory."
In the first place," he continued, "you must keep the whole affair a profound accred. There is no more ervicus race of men than selectific discoverers. Many would start on the same journey.

coveren. Many would start on the same journey.

At all events, we will be the first in the field.

"I doubt your having many competitors," was my raph.

"A man of real scientific acculrements would be

delighted at the chance. We about find a perfect stream of pilgrims on the traces of Arne Salnussem, if this document were once mule public." "But my deer sir, is not this paper very likely

"But my dear air, as not this paper very many to be a houst" I urged.

"The book in which we find it is sufficient proof of its authorizeity," he replied.
"I therepush's allow that the contrated Professor

wrote the lant, but only, I believe, as a kind of mysidification," was ny answer. Scarcely were the words out of my month, when I was nowy I had uthred them. My mode looked at me with a dark and piccom secul, and I began to be alterned for the results of our conversation. His mond seen changed, knowers, and a stuffle book with a decidity completely.

"But see, what is all this about yokul, and Sneffals, and this Scartarint I have never board anything about them."

"The very point to which I am coming. I intely recovered from my franch, Augustus Februans, of Labour, a mon. Tokin down the third atlas from CHAPTER IV
WE STAIT ON THE JOURNEY

"You see, the whole blind is made up of welcanow, "said the Professor," and note that they all hear the name of yoku! The word is Icelands, and means glacky. In most of the lefty means tains of that rupon the velcanic eruptions come

forth from Se-board coverns. Hence the stone applied to every volume on these extraordinary island." "But what does this word Smellels mess?" To this question I expected no reticual sussess. I was mistaken. "Follow my finger to the Western

count of Icohard, there you see Reykjawil, its mapthal. Follow the direction of one of its innumeraable fjersh or arms of the sea, and what do you see below the sixty-difft degree of intitude?" "A pecknula-wery like a thigh-bons in chaps,"

"A perincula—very like a thigh-bons in shape,"
"And in the center of it——?"
"A mountain,"
"Well, that's Sneffth."

"Well, that's Sneltch."

I had nothing to say,
"That is Snelfels—a mountain about five thou-

and feet in height, one of the most remarkable in the whole island, and certainly doored to be the most cocketated in the world, for through this cruter we shall reach the Center of the Harth." "Impossible" cried I, startled and shocked at the thought.

"Why impossible?" said Professor Hardwigg in his severest toxes.
"Beause its crater is choked with law, by burning rocks—by infinite dangers."

ing recks—by infinite dangers."
"But if it be extinct?"
"That would make a difference."
"Or course it would. There are about three bundred volumes on the whole surface of the globs—

any times weatered society. Pressure yet prepared to the present the present the pretained by the pretained by the pretained by the prepared by the prepared by the pretained by the pretained by the prepared by the pretained by the pretained by the pretained by the prepared by the prepared by the pretained by the pretained by the pretained by the prepared by the prepared by the pretained by th

is right. He found out the entrance to the bowels of the earth, be has indicated correctly, but that he or sayone clac over followed up the discovery, is

or sayone cise over follomadness to suppose."
"Why so, young man?" "All scientific teaching, theoretical and practical, stewn at to be impossible."

"It are nothing for theories," retorted my uncle. "Int is it not wall-house, that best increases can degree for every seventy fest you descent info the search which gives a fine idea of the central bests. All the natives which compare the gobe are the barden from all in a state of fusions. What

the hardest rocks are in a state of fusion, would become of us?"
"Don't be alarmed at the heat, my boy."
"How as?"

"More so?"
"Notither you nor saybedy else knows saything about the real state of the searth's inheiror. All moderns emrorance between the control of the search of the sayer court of the earth would be shattered to atere, and the world would be at a real."

A long, learned and not uninteresting discussion followed, which ends is that "I'do not better in

to multiply; and the only way to harn, is like Arno Sukusacen, to go and see,"
"Well," cred I, overcome at lact, "let us go and see. Though how we can do that in the dark is

"Four nothing. We shall overcome these, and many other difficulties. Besides, as we approach the

Carrier, I expect to find it luminous—"
"Nothing is impossible."
"And now that we have come to a therough understanding, not a weed to any living soul. Our success depends on screeny and despatch,"

eest openat on screeny any despates.

Thus easied our memorable conference, which remain a parfect forer in ma. Leaving my unit, I may be a support of the Rich, I have not be the control of the Rich, I have not be this. We sail I had beard really and truly possible? Was my urose in his scale same, and could the interior of the sarth he randould? Was I ha vietlim of a maximum, or woo he a discovere of rare currage and grandour

of conception?

To a certain extent I was annount to be off. I was afraid my enthusians would cool. I determined to pack up it occo. At the end of an hear, however, our way how to be a first and the control of the co

her all. Ble listened with sow, and for some minutes she could not speak. "Well?" I at hat asked, "with a magnificant journey. If I were only a man! A journey worthy of the nepher of Professer Hardwige, I abould leek upon it as an herea ha accommon here."

"My dear Gratchen, I thought you would be the first to cry out against this mad enterprise." "No; on the contrary, I givry in it. It is magnifcent, spientid—on jone worthy of my father. Burry Lawron, I vary you? This was at it were conclusive. The final blass

This was, as it were, conclusive. The final blow of all.

When we entered the house we found my unels surrounded by workness and nectors, who were packing up. He was priling and healing at a bell "Where have you been watting your time! Your pectranature as not packed—my pages are not in order—the packeton tallor his not brought picketon, nor my gatters—the key of my carpet hag is gree!"
I isoled at him stupeford. And still be tagged away as the bell. "We nor creally off, then?" I good.

nfortunate boy!"
"And when do we go?"

"The day after to-marrow, at daybreak," I hand on suce; but durated of to my little bedchambler and locked myself in. There was no declute about It now. My unche had been hard at work all the afternoon. The garden was full of roges, republishing, butches, iron darges, core-being, a property of the state of the state

as was ner Initiar.

Next day, at five o'clock in the morning, the postchains was at the door. Getethen and the old cook
recurred the kays of the house; and, surveyly gouring to wish sayins good-bys, we started on our
adventures; source; unto the center of the Karth.

CHAPTER V

PRIST LESSONS IN GLIGHING

AT Altona, a otherh of Hamburg, is the Chief I am to the above of the Relt and exactly at 7 clear railway currence. My unch said nothing. Ha of lookend. In three hours we reached Kiel and We had now a day before us, a dalay of about ten hours, which fact put my uncle in a towaring passion. We had nothing to do but to welk about the pratty town and hay. At last, however, we went on heard, and at half past ten were steeming down the Great Belt. The pext morning we resched Copenhagen, where, szarcely taking time for refreehment, my uncle harried out to present one of his letters of introduction. It was to the director all he could to assist us. One wretched home somtained me now. Purhaps no vensal was bound for Abad a little Danish schooner, the Valleyrie, was

to sail on the second of June for Reykjawik. The captus, M. Barro, was on board, and was rather surprised at the centry and cordinity with which his fittere passenger shook him by the hand. To him a voyage to feeland was merely a manter of course. My unole, on the other bond, considered the event of subline inportance. The browner andor took

"On Tuesday morning at seven o'clock be on

uncle as we sat down to a late breekfast; "refresh yourself, my boy, and we will take a run through Our meal concluded we went to the Kenrens-Nye-

the other liens of the place,-none of which my usele even now, so absorbed was he in his section-

But one thing struck his fancy, and that was a the city of Conculueur. My uncle at once ordered comstance, which was, that its rather elevated steeple started from a circular platform, after round to the very summit. "Let us second," said

"But I never could climb church towers," I cried, "The very reason why you should go up. I want

"But my good sir-"I tell you to come. What is the use of westing

so much valuable time?* It was impossible to dispute the distatorial commands of my uncle. I yielded with a gream. On payment of a for, a verser gave us the key. He. for one, was not nartial to the ascent. We uncle at once showed me the way, running up the steps like a school-boy. I followed as well as I rould. though no sooner was I outside the tower, than my head begon to swim. There was nothing of the Still things did not go badly until I had accended 150 stere, and was near the plotform. Then I began to feel the rush of cold air. I could sourcely The railings were frail enough, but they seemed winding staircoss, that amouned, from where I stood, to second to the skies.

"Now than, Harry," "I can't do it!" I cried, in accents of despair. "Are you, after all, a coward, sir!" said my To this there was no raply possible. And yet the

"Look around you," said my uncle, in a stern Stowly, and shivering all the while with cold. I as by some optical delusion appeared to stand still, one side could be seen the grassy plain, while on the other lay the sea bathed in translucent light, bayund the point of Elsinore, crowded with white suils, which, at that distance, looked like the wines of sea-gulls; while to the east could be discovered the far-off coast of Sweden. The whole appeared a Faint and bewildered as I was, there was no remedy for it. Rise and stand up I must. Despite

while the steeple, the weathercook, and our two selves were carried swiftly along. For away on

my protestations my first lesson lasted quite an boter. When, nearly two hours later, I resched the botom of mother earth, I was like a rhoumatic oil man bent double with pain. "Enough for one day." seld my uncle, rubbing his hands, "we will begin There was no remedy. My lessons lasted five days, spread, and found myself able to look down into the

OUR VOYAGE TO ROBLAND

THE hour of departure came at last. The night before, the worthy Mr. Thompson brought us the most ourdial letters of introduction for Court Trampe, Governor of Iceland, for Mr. Pictursson, condjutor to the bishop, and for M. Finnen, mayor of the town of Revkiswik. In return, my uncle nearly crushed his hands, so warmly did ha shake them,

On the second of the month, at two in the morne ing, our precious cargo of luggage was taken on hoard the good ship Valkyrie. We followed and small cabin with two standing hed places, neither vary wall ventilated nor vary comfortable. But in the cause of science men are experted to suffer, "Well, and have we a fair wind?" cried my uncle.

"An excellent wind!" replied Captain Blarne; "we shall leave the Sound, some free with all salls set." A few minutes afterwards, the schoozer started before the wind, under all the convex she could carry, and entured the channel. An hour the waves, and we were at no great distance from the coast of Elsinore. My uncle was delighted; for myself, moody and dissatisfied, I appeared almost to expect a elitrose of the shoot of Hamlet. "Subline makman," thought I, "you doubtless, would approve our proceedings. You might per-

hams even follow us to the center of the earth there to resolve your stemal doubts." "How long will the voyage last?" saled my uncla-

the skinner. "unless, indeed, we meet with some porth-seat gulen among the Parce Islands,"

delay," cried the impatiant Professor "No. Mr. Hardwige," said the centain, "no fear of that. At all greats, we shall get there some The voyage offered no incident worthy of record, acquoos, and were sharm, was remarkably seasable! This would see troubled him the more, that they revented him free questioning Cuptain Blazza as communication, and the facilities of braspart. All times explacations he had to adjourn to the partie of his arrival. His time necessively, we spect to make the contract of the arrival. His time necessively, was spect to make the contraction of the service. I do not not consider termination of the vowers. I do not not consider termination of the vowers. I do not not not consider termination of the vowers.

On the elevanth day we eighted Gape Portland, over which towerd Mount Ryralis Yokal, which, the weather being clear, we made not very raidfly. The cape third is nothing to it a hage mount of granite standing nated and alone to most the Atlantic waves. The Yokalyrie kays did not count, these wides "On Yokalyrie kays did not count, these wides "On the workers." On all sidds were to be seen while "online" of which and allows. After count with "others of which and allows. After count of the county of the property with a round which the forming waves pround with intense fury. The lights

whose "execute" or wanter and atther, refer obtabours we came in night of a solitary rook in the cosen, forming a milethy world, around "the his observation of the cosen of the cosen of the of Werkman appeared to leap front the scene, holitor so law in the water as scarcely to be seen, until you were right upon them. From that mercan the acknown was starred to the weatward in order to round Cup Replicates, the weetern point or

tooked. My under, to bis great disgrat, was unable even to crawl on deck, so heavy a sax was out, and thus let the first view of the Land of Promise. Fortyeight hours lister, after a corm wheat drove us far to see under burse pole, we came core since in fact to the control of the control of

the schooler satisfy to an access in the coy of each before Rockjawik.

My made came out of his cashin pair, haggard, the, but full of earliesiasm, his open dicted with pleasure and satisfaction. Nearly the whale sequelation of the form was on foot to sea us fined. The fact was, that earnedy any one of them but expected some goods by the periodical weeks.

spected some goods by the particilical vessels. Prefessors Hardwign was in heade to leave his prisen, or rather as he called it, his benefits; bord hand, led me to the quarter-clack of the schwoor, took my arm with his birt hand, and pulsted instead with his right, over the methem part of the bay, to where rose a high 600-peaked normhous by the wine of the companion of the property of the best winered in an assessificiate viole, "behold be winered in an assessificiate viole, "behold—

Without further remark, he put his finger to his lips, frowned darkly, and desonabed into the small best which awaited us. I followed, and in a few minutes we select upon the soil of mysteriess

Surrely were we fairly on shore when there appeared before u.s. name of excellent appearance, wasning the conturns of a military officer. He was, herever, but a divide surem, in amplitude, the govceme of the island—Barne Trempe. The Professor have when he held to deal with. He hardered handed him the letters from Greeninger, and a herefor conversation in Daniel Allowal, to which, I do for I did not know the language in within they conversed. I afterwards heart, however, that Barne. was quite as utilizer in the poursor, lest also from humbers and outperfine qu'ils a passific. As forchanges and the properties of the position of the spinners which is the methers perties of the facions. We were therefore compelled to forfer the facions. We were therefore compelled to forfer the however, was compensated by the processes of the however, was compensated by the processes of the however, was compensated by the processes of the facility of the processes of the processes of the Price of the processes of the processes of the This medical relative spinners of the processes of the This medical relative processes of the processes of the This medical relative processes of the processes of the This medical relative processes of the processes of the limit of the processes of the processes of the processes of the limit of the processes of the processes of the processes of the limit of the processes of the

My uncle was also most graciously received by

Out of three rooms of which his house was composed, two were placed at our service, and in a few hours we were installed with all our begrage, the amount of which rather actorished the simple inhabitunts of Roykjawit.

"Now, Herry," said my uncls, rubbing his bands, "all goes well, the worst difficulty is now over." "Bow the worst difficulty over?" I cried in fresh armonists.
"Doubtiess. Here we are in Iceland. Nothing

more remains but to descend into the bowels of the earth."
"Well, sir, to a cartain extent you are right, We have only to go down—but, as far as I am concerned, that is not the question. I want to know

cernor, that is not tee question. I want to know how we are to get up again."
"Yat is the least part of the breiness, and does not in any way trouble no. In the meantime, there is not an hour to lose. I am about to wish the public library. Very likely I may find there some

manuscripts from the hard of Sahmussem. I stall be glad to consult them."
"In the meanwhile," I replied, "I will take a wait to the meanwhile," I replied, "I will take a wait to the meanwhile," I see a subject," wild my made wy "What for me in cortons in this listend, is not what is above. I see four the hard is below.

furred cleak, and went out.

If we not an easy matter to less could in the two streets of Roykinskit, I had therefore no need to ask my way. The town lies on a flat and mustaly pink, between two hills. A vast field of law a kiris it on one side, follows away in terraces towards the sac. On the other hand is the large bay of Poor, sac. On the other hand is the large bay of Poor, as Spottla. In the hay the Valleyrie was then the only weaded at achieve. Generally there were one or two.

wessel at anchor. Generally there were one or two
English or French genhouts, to watch and protect
to, the fisheries in the offer, However, they were now
a sheert on duty.

In three hours my bour was complete. The general impression upon my mind was saftens. No

trees, no wegetation, so to speak—on all sides volrens, peaks—the bats of turf and earth—more like roofs than houses. Thanks to the heat of these sesidences, grass grows on the roof, which grass is

AMAZING STORIES beach, drying, saiting and loading cod-dah, the principal article of expertation. The men appeared

jawik; "you speak of one of the most distinguished persive more exiles of a higher scale in the ladder of humsnity than the Esquiment, but, I thought, "Evartly so" much more unhappy, since with superior perceptions they are compolled to live within the limits of the Polar Circle. "A man illustrious above all." CHAPTER VII

CONVERSATION AND DISCOVERY

THEN I returned, dinner was ready. This mest was devoured by my worthy relative with avifity and voracity. His shipboard repeat, which was more Danish thus Icelandic, was in riself nothing, but the excessive hospitality of our host made in enjoy if doubly. The conversation turned upon scientific motters, and M. Fridriksson

asked my uncle what he thought of the nubite "Library, sir!" cried my uncle; "It appears to me a collection of useless odd volumes, and a beggarly amount of empty shalves

"What!" oried M. Fridriksson: "why, we have eight thousand volumes of most rare and valuable works-some in the Scandinavian language, besides

"Right thousand volumes, my dear sir-why, where are they?" cried my uncle-"Scattered over the country, Professor Hardwigg. We are very studious, my dear air, though we do live in Sceland. Every farmer, every laborer. think that books instead of being looked up in

without returning to the library abelyes perhaps "Then when foreigners visit you, there is noth-"Well, sir, foreigners have their own libraries. and our first consideration is, that our humbler classes should be highly educated. Fortunately, the

honorary members; we publish books destined to educate our people, and these books have rendered valuable services to our country. Allow me to have the honor, Professor Hardwigg, to enroll you as an My uncle, who already belonged to nearly away

literary and scientific institution in Europe, immedistriv visided to the arriable wishes of cood M. expressions of gratitude and good-will, "if you will I may be of some assistance to you,

I watched my until keenly. For a relaute or openly was, perhana, to unwill his projects. Nexurtaining, if among other valuable works, you had

"Arme Sakmassem!" cried the Professor of Rayle. scholars of the sixteenth century, of the great naturalist, the great alchemest, the great traveler." "One of the most distinguished men connected

"Yes, sir, all this is true, but his works?" "We have none of them. "Not in Ioeland?" "There are none in Iceland or elsewhere," am-

swered the other, sadly. "Why so?" "Because Arne Saknussam was persecuted for

hereay, and in 1973 his works were publicly burnt at Copunhagun by the hands of the common hang-"Very good! capital!" murmured my uncle, to the

great astonishment of the worthy Icelander. "Yes, yes, all is clear, I see the link in the chain; everything is explained; and I now understand why

graph, the secret-"

"A secret-which," stammered my uncle "Have you discovered some wonderful manuscript " "No, no. I was carried away by my enthusiasm. A mere supposition "Very good, air. But, really, to turn to another

subject, I hope you will not leave our island with-"Well, the fact is, I am rather late. So many he distributed as widely as possible. The books of learned men have been here before me, "Yes, yes, but there is still much to be done," cried M. Fradriksson. "You think so," said my uncle, his eyes twinkling with hidden satisfaction "Yes, you have no idea how many unknown moun-

tains, glacters and volcanous there are which remain can show you one. Yender on the edge of the herinon, you see Spoffels." "Oh yes, Sneffels," said my uncle. "One of the most curious volcances in existence. the crater of which has been rarely visited."

"Extinct for the hat five hundred years," was the roady reely "Well," said my uncle, who dug his neils into

his flesh, and pressed his knees tightly together to prevent himself leaping up with joy. "I have a great mind to begun my studies with an examination

"Speffels, my dear sir." This portion of the conversation took place in

Eight and satisfaction. I senst confess that his artful grimness, put on to concest his happiness, made him look like a new Mechistopholes. "Yes, yes," he continued, "your necessition delights rea I will

A TRIP TO THE CENTER OF THE EARTH

"very much regret," continued M. Fridrikson
"that my occupation will enturely preclude the possibility of my occupation will enturely preclude the possibility of my occupation grow. It would have been both pignorarible and profitable if I could have sprared the time."

"No, m, a thousand times no," cried my unch.

"a set a world to distinct his assention of any men.

"No, no, a thousand times no," cried my uncle.
"I do not wait to disturb the sevently of any man.
I thank you, however, with all my heart. The presence of one so learned as yourself, would no double have been most unfail, but the duties of your office

and profession before everything.

In the innocease of his sample heart, our host
did not perceive the irony of these remarks. "I entirely approve your poject," be continued after
some further remarks. "It is a good side to begin
by somening this volvans. You will make a harvest
of sections observations. In the first block, low do

you propose to get to Sneffels?"
"By sen, I shall cross the bay. Of course that
is the most rapid route.
"Old owner. But still it course be draw."

is the most rapid rolls.
"Of course. But still it cannot be done."
"Why?"
"The course of the course

"We have not an available best in all Reykjawik,"
replied the other.
"What is to be done?"

"You must go by land along the coast. It is longer, but much more interesting." "Then I must have a gade."

"Of course; and I have your very man."
"Boundedy on whem I can depend?"
"Yes, an inhabitant of the pramuals on which

Tes, an industrian of the periment of which Specifie is situated. He is a very shrewl and worthy man, with whom you will be pleased. He speaks Danish like a Dane!"
"When can I see him—to-shry?"

"No, to-morrow; he will not be here before."
"Yourcerow be it," replied my unde with a deep sigh.
The conversation ended by compliance on both sides. During the direct my write hed learned

The conversation come by compensation or born cides. During the dimer my such add learned much as to the history of Arne Sukusseam, the reseas for his mysterious and hieroglyphical doement. He also become aware that his heat would not accompany him on his advantarous expedition, and that next day we should have a guide.

CHAPTER VIII THE MREE-ROWN MUNICIPALITY AT LAST

I wild central took a brief will see the store of the control took as the control tool and took and to

systiculation common to southern secole.

and pidagenatic temperament. There was nothing indicate about him, but his appearance space of tranguality. He was one of these who never necessal to capted anything from anythody, who liked to work when his thought proper, and whose phinknephy mething could arotte the results. It is a superior to the way in which he listened to the width and me, passioned writings of my worthy unch. While the conclinit Professor space sentence after notions,

I kegan to comprehend his character, simply from the way in which he lifetened to the wild and impassioned writings of my worthy unche. While the conclient Professer spoke sortione after swittenes, he stood with folded arms, utterly still, motecolose to all my unches gestionalitions. When he wanted to say no he moved his head from left to right; when he surplement, he modeled no slightly that you

eccessing of motion was carried to the length of average. Judging from his appearance it would have been a long time before I would suspect him to be what he west a nightly binature. Certainly his measure was not likely to frighten the game. How, then, did he construct to set at his new? Mr surprise

was slightly modified when I know that this tranquil and solame personage, was only a hunter of the eider-duck, the down of which is, after all, the greatest source of the foolanders' wealth. This graws, austratives, eilent person, as phigmatic as an Englishmen on the Prench steps, was

named Enm Bjelke. He had caffed upon us in consequence of the recommendation of M. Friedrikson. He was, in fast, our future guids. It streets me that had it saught the world over, I could not have found a greater contradiction to my impolarmach. However, they resulty understood one another. Welther of them had my unpub showd him, the other ready to offer mything that was

asked. It may resultly be consolved, then, that an understanding between them was soon reached. The understanding was, that he was to take us the second of the second of the second of the second of the vectors. Beans, the guide, tald us the distance was about twenty-two male, a journey which my much composed would take about two days. But when my much realized that they were Danish makes of slight flowestern grants exceed the second purchase seeds, he was obligated to be more motivated in his closes, and, consodering the

more moderate in loss ideas, and, considering that burrille roads we had to follow, to allow eight or tent days for the fourney. Four horses were proved for us, two to carry the begange, not two to have the investment weight of myself and the control of the control of the control of the roads also illness on the two of any attitud. He know every inch of that part of the coast, and premised to take not be very barbreat way.

memined to take us the very shortest way.

His engrement with my uncle was by a means of the cause with our arrival at Stept) he was further to the cause with our arrival at Stept) he was further to the caption of the scientific investigated to the caption of the scientific action. The scientific is the scientific investigated to the scienti

which, his engagement was it in end.

The day of our departure was fixed. My unobservable to hand the either-down heater an attrance.

but he refused in one emphatic word-"Efter."six months. The only liquid provided by my uncle which being translated from Icelandie into plain was scheldam. Of water, not a drop. We had, however, an ample supply of gourds, and my uncle The treaty concluded, our weethy guide retired without another word. "A splendid fellow," said counted on finding water, and coough to fill them. an soon as we commanded our downward former. My remarks as to the temperature and quality

my uncle; "only be little suspects the marvelogs part he is about to play in the history of the

"You mean, then," I cried in amenement, "that be

"To the Interior of the Earth, yes;" replied my uncle. "Why not?" There were forty-eight hours more to also before we made our final start. Our whole time was telesa

up in making properations for our journey. All our industry and ability were devoted to pecking instruments on one side, the arms on the other, the

tools here and the provisions there. There were, in fact, four distinct groups. The instruments were, of course, of the heat

L. A centigrade thereconcter of Einel, counting up to 150 degrees, which to me did not expect held enough—or too much. You but by half, if the degree of heat was to second so high-in which case we should certainly be cooked-not enough, if we wanted to ascertain the exact temperature of

2. A seasoneter worked by the pressure of the atmosphere, an instrument used to sacertain the would not have done as well, the atmospheric pres-

sure being likely to increase in proportion as we 3. A first-class chronometer made by Bolssonnas, of Geneva, set at the meridian of Hambury, from

which Germans calculated as the English do from 4. Two compasses, one for horizontal guidance,

5. A night glass, 6. Two Rubmkorf's cells, which, by means of a

current of electricity, would ensure us a very excellent, easily carried, and certain means of obtain-. A voltage battery on the newest principle,

Our arms consisted of two rifles, with two revolvers. Why these arms were provided it was impossible for me to say. I had every reason to believe that we had neither wild beasts nor savage natives to fear. My uncle, on the other hand, was instruments, and above all was very careful with his provision of fulminating or gun cotton, warranted to keep in may climate, and of which the

Our tools consisted of two pickaxes, two crowstocks, a hatchet, a hammer, a doesn wedges, some You may conceive that the whole made a telerable parcel, especially when I mention that the ludder

being found, remained wholly without effect. To make up the exact list of our traveling gearfor the suidance of future travelers-I will add all spearstus necessary for wounds, fractures and blows: Ent., sessees, lancets-a perfect collection of

horrible-looking instruments; a number of phinks containing ammonia, alcohol, other, Goulard water, aromotic vinegar, in fact, every possible and impossible drug-finelly, all the materials for work-

My uncle had also been careful to lay in a goodly surely of tebecco, several facies of very fine renpowder, boxes of tinder, busides a large belt crammed full of notes and gold. Good knots rendured water-tight were to be found to the number of six in the tool-box. "My boy, with such clothing, with such boots, and such general equipments. said my uncle, in a state of rapturous delight; "we-

It took a whole day to put all these metters in order. In the evening we dired with Baron Trampe, in company with the Mayor of Revinewic, and therefore, I did not understand a word that was

The next day our labor came to an end. Our worthy host delighted my made, Professor Hard-Our last evening was spent in a long conversation

with M. Fridriksson, whem I liked very muchthe more that I never expected to see him or any one also senin. After this agreeable way of smenting an hour or so, I tried to sleep. In vain; with the exception of a few dozes, my night was miser-At five o'clock in the morning I was awakened

from the only real half-hour's sleep of the night, by the load neighing of horses under my window. I hastily dressed myself and went down into the street. Hans was engaged in putting the finishing stroke to our bargage, which he did in a silent, It admirably well. My uncle wasted a great deal of breath in giving him directions, but worthy Hams expensive force was known to be greater than that

At six o'clock all our preparations were completed, and M. Fridriksson shook hands heartily with us. My unde thanked him warmly, in the Icalandic lanmy best Letin phrases and redd him the highest compliments I could. This fraternal and friendly duty serfermed, we sailed forth and mounted our

Then there eams the important question of provisions. The hamper was not very large but more As soon as we were quite ready, M. Fridriksson advanced, and by way of faresuell, rolled after me in the words of Virgil-words which appeared to have been made for us, travelers starting for an "Et moranous esan dederit fortuna semanur." "And which sower way fortune provides may

CHAPTER IX

"HE wasther was overcast but settled, when we nor droughling rain. It was, in fact, real tourist weather. As there is nothing I like better than horse exercise, the pleasure of riding through an unknown particularly agreeable to me. I began to enjoy the gratification and liberty. The truth is, that my "After all," I said to myself, "what do I risk! Simply to take a journey through a currous country. to climb a remarkable mountain, and if the worst the existence of a gallery or of subterrancous perwas simply absurd, the halfociration of a distempered imarination. All then, that may be re-

It was fust before we left Reykjawik that I came to this decision. Hans, our extraordinary guide, or spar. My uncle and I come hebled, cutting very tolerable figures upon our small but vigorous animals, Have, on taking his departure from Resklawik had followed the line of the sea. We took our way through poor and sparse meadows, which made a desperate effort every year to show a little green. They your variety surposeded in a good show of vellow. Every now and then a sour of rock came room to pass. Our horses, however, appeared not only well accominted with the country, but by a kind of instinct, knew which was the best road. My uncle had not even the satisfaction of urging his steed forward by whip, sour, or voice, It was utterly useless to show any signs of impatience. I could not help amiliang to see him look so hig on ing the ground made him look like a six-footed

you. Harry, that I begin to think no animal is more impracticable reads, rocks, icchergs-nothing stope him. He is brave; he is sober; he is safe; he never makes a false step, never glides or olips from his many-you will see him enter the water without eresalte aide in safety. We reast not however, attempt to hurry him; we must allow him to have his

own way, and I will undertake to say that between us we shall do our ten leagues a day,"

"We may do so," was my reply, "but what about our worthy guidates "I have not the slightest anxiety about here: that what he is about. Just look at Hans. He moves so little that it is appropriate for him to become fatigued. Besides, if he were to complain of wearl-

ness, he could have the loca of my horse. I should to have some sort of easyrise. My arms are all right-but my legs are getting a little stiff." The country we had reached was already nearly a desirt. Hers and there could be seen an isolated of wood, earth, fragments of lava-looking like and miserable buts excited in us such pity that we unknown, and vegetation, poor as it was, slowly as of the few travelers who passed from place to

easienally. What, then, must we expect when we come to the unhazed regions-to the districts broken and roughened from volcanic eruptions and subterraneous commetiens?

We were to learn all this in good time. I saw, however, on consulting the map, that we avoided a good deal of this rough country, by following the the great volcanic movement of the island, and all strata of rocks, piled one upon the other, cruptions Little did I expect, however, the spectacle which awalted us when we reached the peninsula of

Spellels, where agglemerations of nature's ruins Some two hours or more after we had left the city of Reskiswik, we reached the little town called here one-half hour. He shared our frugal breakfast, answered use and so to my uncle's questions as to the nature of the road, and at last when naked where we were to pass the night was an

faconic as usual, "Garder!" was his one-worded I took occasion to consult the map, to see where found a small town of that name on the berders

"Only four miles out of twenty-two? Why it is He was about to make some energetic observation to the guide, but Hans, without taking the

and walked shead with the same imperturbable

Still traveling over those apparently interminable morecut when the seas at its highest point, in in a attate of slack water. As nutber the abb nor flow can then be felt, the ferry boat was in no danger shore between high rocks and the sea, we same to of burng carried out to see, or deshed upon the the "acolkirkje" of Brantar, and after another The favorable moment did not come until six

ated on the morthern bank of the Hyalfford. It was The fjord was in this pisce about half-a-colle in width. The aweeping and broken waves came roll-

ing in upon the pointed rooks; the guif was surrounded by rocky walls-a mighty cliff, three thouaund feet in height, remarkable for its brown strata. argumented here and there by bads of tafa of a reddish has. Now, whatever may have been the reliance upon them, as a means of crossing a storms arm of the see. To ride over salt water men the

back of a little horse seemed to me shourd. "If they are really intelligent," I said to myself, "they will cortainly not make the attempt. In avecase, I shall trust rather to my own intelligence

thun theirs." But my uncle was in no humor to walt. He dag the shore. His horse went to the very edge of the water, smiffed at the approaching wave and re-

My ancle, who, rooth to say, was quite an obstrate as the heast he bestrode, insisted on his making the desired advance. This attempt was followed by a new refusal on the part of the horse, who quostly followed by a veller of words and a stort arelies. tion of whitecord; also followed by kicks on the part of the borne, which threw its head and beels the stardy little pony, spreading out his keep in

professor's legs, and left him standing, with both feet on a senerate stone, like the Collegge of "Wretched animal?" cried my uncle, suddenly transformed into a foot possensor-and as angry

And ashamed as a dismounted cavalry officer on the "Forjo," said the guide, tapping him familiarly

"What, a ferry boat!" "Der," answered Hams, pointing to where lay the "Well," I gried much relieved by the informa-

tion; "so it is," "Why did you not say so before," cried my uncle;

"What does he my?" I seled, considerably puzzled by the delay and the dialogue. "He says tide," replied my unde, translating

the Danish word for my information "Of course, I unferstand-we must wait till the tide serves."

"Jo. replied Hens.

My uncle frowned, stamped his feet and then oughly understood and appreciated the necessity for waiting, before crossing the flord, for that

o'clock in the evening. Then my uncle, myself, and guide, two boatreen and the four bornes and tete a very awkward flat-bottom boat. Acceptomed as I had been to the steam furry-boats of the Elbe. I found the long cars of the boatmen but serry means of lecemetics. We were more than an hear in crossing the flord: but at leagth the message was

concluded without accident. Half-an-hour later we reached Gardaz.

T cught, one would have thought, to have been but still the nocturnal illumination did not surand July, the sun never sets. The temperature, was cold, but even that did not affect me so work as raverous hunger. Welcome lodged, therefore, was the but which hospitably counted its doors to us. matter of hospitality, it was worthy of being the restant of a long. As we alighted at the drop the master of the house came forward, beld out his hand, and without any further overmeny, alreaded to us to fellow him. We followed him, for to ac-

company ham was impossible. A long, narrow, on, made from beams roughly squared by the ax. This passage keep ingress to every room. The chambers were four in number-the kitchen, the work-shop, where the weaving was carried on the general sleeping-chamber of the family, and the best room, to which strangers were conscially invited. My uncle, whose lofty stature had not been taken into consideration when the house was built, contrived to knock his head against the beams of the

As soon as we had freed ourselves from our heavy traveling costume, the voice of our host was heard calling to us to come into the kitchen, the only room in which the Icelanders over make any

fire, no matter how cold it may be. My mule, bothing bath, hastened to obey this hospitable and friendly invitation. I followed. On our entrance, our worthy best, as if he had not seen us before, advanced ceremoniously, attered

a word which means "be hancy," and then blosed both of us on the cheek. His wife followed, pronounced the same word, with the same coromonial. then the husband and wife, alsoing their vight hands

This excellent Scalandic woman was the mother of nineteen objideen, who, little and hig, rolled, erawled, and walked about in the midst of volumes

of ample ariting from the angular freedom in the middle of the room. Every now and then I could see a freek white hand, with a slightly melanchely expression of countenance, peering at me through the vapor. Both my untle said myself, however, were very friendly with the whole party, and hefore we were aware of it, there were three or from our boxes, and the rest hanging about our legs, every possible and impossible key. Those who did

ment of supper. Just then our worthy guide, the letting them loose to browns on the stunted green of the Icelandic prairies. There was little for them to eat, but mees and some very dry and insutstitions

grass; next day they were ready before the door, "Welcome," said Hans. Then tranquilly, with the air of an automaten, without any more expression

in one kiss than another, he embraced the bost and This ceremony cancluded to the satisfaction of all narties, we all sat down to table-that is twentyfour of us-somewhat crowded. These who were more fortunate had only two jeveniles on their even to Icelandic bables, prevailed ever all else. Our Post filed our plates with a portion of Liches

of cords of whey, served with biscults and funipermilk with water. I was hungry, so hungry, that thick cet-meal porridge. As soon as the supper was over, the children disarms and the group people ant around the firepiace, on which was placed turf, beather, cow dang all retiring to their respective courbes. Our hostean

effered to not off our stockings and trousers, according to the custom of the country, but as we grantenaty declined to be so honored, she left us to At five in the morning pext day we took our leave. My uncle had great difficulty in making them accept a sufficient and proper remuneration. That rivers rich in trout and plits, we were compelled

mythology. The King of Cold had taken up his residence there, and made us feel his presence all The two following days were remarkable for their damp and awampy soil; the same dreary unifeemity; the same and and monotonous supert of

On Saturday, the 20th of June, at six o'clock in the evening, we reached Budir, a small town pic-

turesquely situated on the shore of the ocean; and here the colde raked for his maney. My uncle

my uncle, who did not require rest, had no idea of next day was Sunday, I was compelled once more The soil was again affected by the neighborhood of the mountains, whose granite peared out of the ground like tons of an old oak. We were skirting

the enormous base of the mighty volcane. My uncle of sullen dedance as much as to say "That is the After four hours of steady traveling, the borses stormed of thursselves before the door of the presbytery of Stapi. We had reached the foot of the

CHAPTER XI WE BEACH MOUNT SNIEPELS-THE "REYKIR"

"TAPI is a town consisting of thirty buts, built On a large plain of lave, exposed to the rays of the sun, reflected from the volcana. It stretches on a large plain of lave, exposed to the rave of character. Here we found Nature proceeding once metrically, and working quite after a human fashion, as if she had employed the plummet line, the cortrast and the rule. If elsewhere she produces grand artistic affects by pilling up haze masses without order or connection-if elsewhere we see truncated cones, imperfect pyramids, with an odd succession of lines, here, as if wishing to

give a leason in regularity, and preceding the architects of the early ages, she has erected a severe order of architecture, which neither the splandors passed. The walls of the fjord, like nearly the whole of the mericania, consisted of a series of vertical columns in herebt about thirty feet. These unright pillars of stone, of the finest proportions, supported tain intervals, and below this patural beain, the soo was wleased and supported by the night of eval openings through which the outward waves come thundering in volleys of from. Some banks of

basult, tors from their fastenings by the fury of of an ancient terrole-ruing sternally young, over which the storms of ages sweet without producing any perceptible effect! his was the last stage of our journey. Hans had becords us along with fidelity and intelligence, and I becan to feel somewhat more comfortable

farther on our way. When we halted before the house of the Rectur, a antil and incommodious cable, neither handsome nor more comfortable than those of his neighbors.

AMAZING STORIES

in his hand, and a lasthern agreen taid around his stainly he lest in the milite of the labyroids of guimaint spagy; and the older-down hunter, only on the continual state of the volume, he was a stained adultation on the even hungaria.

"Groed-dop—groed-slay!" replaid the former, in excellent Danth.

cellent Danish.

"Kyrkokerde," cried Hans, turning round and introducing him to my unde.

"The Roctor," repeated the worthy Professor;

treducing him to my uncle.

"The Roctor," repeated the worthy Professor;
"It appears, my dear Harry, that thes worthy man
is the Roctor, and is not above doing his own work."

During the speaking of these few words the guide
intimosed to the Kyrkoberdo what was the true state.

intimosed to the Nyrkoherdo what was the true states of the case. The good man, coasing from his occupation, gave a kind of hallos, upon which a tull wears, altreet a gantees, came out of the but. She was at least of feet high, whole in that region is very usused. My first impression was one of horror. I thought she had come to give us the

is very unusual. My first impression was one of horror. I thought she had come to give us the Icelandic kiss. However, I had nething to fear, for she did not even shew much indication to receive us into her house.

device a constant of a strangers appeared to me to be by far the worst in the precipitary; it was marrow, dirty and effentive. But there was no choice about the matter. The Rector had no notice of practiving the usual cardial and actique benintifity. My sucke soon hearms eawar of the high of man he had to doth with. Instead of a worthy and learned sobbles, he found a dull, ill-parameted and learned sobbles, he found a dull, ill-parameted.

and learned schools, he found a duly internanced peasant. He therefore readwed to start on his greet expedition as seen as possible and spend a few days in the mointains, if necessary. The preparations for our departure were made the very next day after our arrival at Singli Hans now hired there includings to take the place of the

herea-whith could no longer carry sir loggost. However, when these worthy Iosinators had reached the bottom of the crater, they were to go beke addresses to ourselves. This point was settled shed rebry would agree to start. On this occasion, my uncle partially confided in Hens, the sider-duck hunter, and gave him to understand that it was him intention to continue the exploration of the values.

to the last possible limits.

Have listened clearly, and then nodded his band. To go theme, or elsewhere, to harp humanil in the first person of the last person of t

fate, it should have been at Hamburg and not at the first of Braffels.

One bigs above all eithers began to trouble me: a wory terrible idea, and one calculated to chale the nerves of a rear far less sensitive than myself.

good. We are about to pay a visit to the very bittem of the cruter. Still good. Others have done it and did not perish from that course. "But that is not the whole matter to be con-

"But that is not the whole matter to be considered. If a road does rasily present itself by which to descend into the dark and subtervaneous howeh of Mother Earth, if this thrice unhappy Salenusseem really did bell the trath, we shall must cer-

never to wake? If he does wake what is to become of us?

These were questions worth thinking about, and upon them I reducted long and deeply. I could not be down in search of along without dreaming of cruptions. The more I thought, the more I objected

crupicum. The more I throught, the more I objected to be realized to the clast of dross and subset. I could stand it no longer so I determined at last to substit the whole case to my uncls, in the most adrect manner possible, and under the form of some totally irreconcilable hypothesis.

I sought him. I laid before him my fears, and then draw back in order to bot him get over his passion at his ease.
"I have been thinking about the matter," he said, in the orderest time in the world.

With definition and Was he is list about to listen with definition of reason? Did he think of suspensing this projects? It was almost too much happiness to be true. I make no remark. I was too auxious not to interrupt him, and no allow him to reflect at this blazers. After some mortests he spoke that the post thinking about the reason has protored the post thinking about the raw which has the reason of the reason of the reason of the bean almost said to compiled with the grave question

which you, yourself just submitted to me—(or antibing would be unwiser and more inconsistent than to act with ingreadence."
"I heartily agree with you, my dear uncle," was my somewhat hopful rejounder.
"It is now air hundred years since Streight has anylor, but though now rejuned in a state of winer andrea, but though now rejuned in a state of winer

ollence, he may speak again. Now volcanic cruptions are always preceded by particulty well-known phonoments. It have closely somemines the inhabitants of this region; I have carefully studied the soil, and I have been to tell you emphatically, my dear Herry, there will be an exception at present."

will be no eruption at present."

As I listaned to his positive affirmations, I was stupefied and could say nothing.

"I see you doubt my word," said my uncle; "fol-

I obeyed mechanically. Leaving the proshpiory, the Profuses took a read through as opening in the benaftic rook, which led far away from the sax We were seen in open country, if we could give such manuscular places all control with velocity and positis. The whole had some of critical makes the weight of accessors some—of traps, of healt, of

le could see many apouts of attenu risings in the et air. These white vapors, called in the fockardic slif, language "vaptiv" come from het weter foundaise, we and indicate by their violence the velocine activity and of the soil. The sight of these appeared to justify my appraisation and I was therefore, all the more surprised and mortified when my uncle thus adtracted me. "You see all this more large and these of the "You see all this more large."

"Yes, cir."
"Well, as long as you can see them thus, you have
nothing to fear from the volcane."
"How can that he?"

"He careful to remember this," continued the amouts of vapor redouble their activity-to disapnecessary tempion, seek refure in the interior of of the carth. If, then, the steam remains in its aremal or habitani state, if their energy does not

"But-"Enough, my boy. When science has sent forth her flat-it is only to hear and to oberappointed. My uncle had completely defeated me had one hope,-that was, when once we were at the bottom of the crater, that it would be impossible in

default of a gallery or tunnel, to descend any I record the whole of the following night with a nightmore on my sheet!-- and, after unbeard-of miseries and tectures, found myself in the very depths of the surth, from which I was suddenly

hunched into planetary space, under the form of an Next day, the 23d June, Hans calmly awaited se outside the presbetery with his two companions iron-shod stayes, two guns, and two large game a man who never failed to take even the minutest prevautions, had added to our begongs a large skin

aranged us water for eight days.

It was nine o'clock in the morning when we were ready. The rector and his bugs wife, or servant-I never know which-stood at the deer to see us usual final hiss of the loslanders. To our supreme autoniohment their added took the shape of a formidable bill, in which they even counted the use of the nartoral house, really and truly the most abortizable and dirty place I ever was in. The worthy counter cheated and robbed us like a Swiss innkcoper, and made no feel, by the sum we had to pay, the splendees of their hospitality. My uncle paid without harvafning. A man who had made up his mind is not the men to hargie over a few miserable rix-

This important matter settled, Hans, gave the aignal for departure, and a few moments later we

CHAPTER XII

THE ASCENT OF MOUNT SNEETHES WE saleson which was the first stage of our experiment, is about the book a long range. of volcance mountains, of a character different from the system of the island Steelf. One of its peculiari-

Our party formed quite a procession. We welled in single file, preceded by Hans, who calmir led us by narrow noths where two persons could by no nossibility walk abreast. Conversation was wholly impossible. We had all the more apportunity therefore to reflect, and to admire the awful grandeur of As we advanced, the road become more difficult.

The soil was broken and dangerous. The rocks broke and gave way under our feet, and we had to be scrapulously exceful in order to avoid dansemetimes he would disappear behand born blocks There was a little period of armiety and then there was a shrill whistle, sust to tell us where to look

Occasionally he would take it into his head to up into small heaps, in order that we might not lose the precoution was a good one; though how atterly useless and unnecessary- But I must not anticipate.

Three hours of terrible fatigue, walking incossantly, had only brought us to the foot of the

full of water, as an addition to our gourds. This signs to that effect-and a summary kind of heastfast was leid out on the lava before us. My uncle. who now was simply Professor Hardwigg, was so easer to alleance, that he boilted his food like a a halt for renose. The Professor was therefore coma good hour. The three leelanders, as tacitum as ing and drinking very quietly and soberly. From this, our first real stare, we began to

sound the alopes of the Szeffels volcano. Its magnuffecent anowy night-con, as we began to call it, appeared to me to be close at hand; and vat how many long weary hours must clause before we reached its summit. What undreamed-of fatigue

The stress on the mountain side, held together by no sement of soil, bound together by no roots or creating herbs, gave way continually under our a series of small avalanches. In certain places the sides of this stupendous mountain were at an angle and we were compelled to get around there obstudes. so best we could Those who understand Altrine elimbing will appreciate our difficulties. Often we

were obliged to help each other along by means of we started it was impossible to make out the actual I must say this for my uncit-he stack as close 118

narently investible to fatigue. He had another great ndvantage-the innate sentiment of southrium-for he never elipped or failed in his stere. Looking up every now and then, at the beight of impossible to reach the summet on that side-at

least if the angle of inclination did not speedily Fortunately, after an bour of difficult climbing, ing to an acrobet, we came to a wast field of ice, which completely surrounded the bottom of the cone probably for some such reason as the dwallers in the Cape of Good Hope call their mountain, Table

Mountain, and their anchorage or roads, Vable Bay. Here, to our mutual surprise, we found an actual flight of stone steps, which considerably assisted our secent. This singular flight of stairs was, like of those torrents of stones good up by the eruptions, of which the Icelandic name is atmi. If this singular peculiar shape of the flanks of the mountain, it would have sweet into the sea, and formed new islands. Such as it was, it served us admirably. greated, but these remarkable atoms stems, a little

less difficult than those of the Egyptian pyramids, were the one simple natural means by which we About seven in the evening of that day, after having clambered up two thousand of these rough steps, we found ourselves overlooking a kind of spur or projection of the mountain-like a huttrees

leaned for support. The onean law beneath us at a depth of more than three thousand two hundred feet-a grand and mighty spectacle. We had reached the region of eternal snows. The cold was keen, searching and intense. The wind blew with extraordinary violence.

I was utterly exhausted. My worthy uncle, the Professor, saw clearly that my legs refused further service, and that, in fact, was utterly exhausted. Despite his het and feverish impatience, he decided, with a sigh, upon a halt. He called the older-duck hunter to his side. That worthy, however, shock his bead, "Ofventor," was his sole spoken reply.

"It arneam," save my uncle with a wee-begone look, "that we must go higher." He then turned to Hans, and asked him to give

"Je mistour-yes, the mistour," cried one of the

Itelandic guides in a turrified tone. "What does this mysterious word signifu?" I

anxiously inquired. I looked down upon the plain below, and I naw a of sand, of dust, rising to the heavens in the form

The wind was driving it directly towards that side of Sneffels on which we were perched. This oraque will standing up between us and the surprojected a deep shadow on the fanks of the mountain. If this sand-about broke over us, we must all be completely destroyed, crushed in its fearful embraces. This extraordinary physomenon, very common when the wind shakes the glociers, and aweeps over the arid plains, is in the Icelandia tongue called mustowr.

Now I cortainly knew nothing of Danish, but I thoroughly understood that his gustures were meant to harry us. The guide turned rapedly in a direction which would take us to the hack of the crater, all the white ascending slightly. We followed rapidly, despite our excessive fetigue. A quarter of an hour later Hans named to are able on to look back. The wighty whichers of

sand was spreading up the slope of the mountain to the very spot where we had proposed to half Huse stones were caught up, cent into the air, and thrown about an during an ecurtion. We were happily a little out of the direction of the wind. and therefore out of reach of danger. But for the procuption and knowledge of our guide, our disocated bedies, our crushed and broken limbs, would have been east to the wind. like dust from some Hans however did not think it prudent to ness the

night on the hare side of the cone. We therefore continued our journey in a signag direction. The took us at least five hours. The turnings and windings, the no-thoroughfares, the marches and marches, turned that insignificant distance leto at fatigue and exhaustion in my life. I was ready the rarefied air acted painfully upon my lungs. At last, about eleven at night, when I thought I was gasping my last breath, we reached the sum-

mit of Mount Speffels! It was in an awful state of mind, that despite my fatigue, I passed to helid the sun rise at midnight on the very day of its ghastly pale rays cast upon the inic which lay sleeping at our feet, before I descended into the crater which was to shelter us for the night. I no longer wondered at people traveling all the way from England to Norway, to hehold this magi-

CHAPTER XIII

UR supper was eaten with ease and rapidity

UR supper was shinn with some ment he could situr which everyhody did the heat he could for hirsself within the hollow of the crater, The bed was hard, the shelter unsatisfactory, the situation painful-lying in the open sir, 5,000 feet did I sleep so well as I did that particular night, I did not even dream. So much for the effects of specifical whith merelled itself, panceum-like, at a four foot.

I stack upon the larly summit of Mount Storfelf contribers peak. Theme I was able to obtain a view of a great part of the island. The optical detusion, common to all leftly begints, rushed the abares of the fittind, while the oparied the barres of the fittind, while the oparied proceed. It was by no means too great a flight of fancy to believe that a glint ylotare was stretched out before m. I could see the one yalley, that

fancy to believe that a giant picture was stretched out before me. I could see the deep valleys that crossed each other in every direction. I could see prospices beloiting his sides of wells, lakes that secreed to be changed into porcia, ponds that looked [Bee publics, and rivers that were transferred into petty brecks. To my right were photoric upon takers, and multivided colar, torough with light

glacters, and multiplied peaks, topped with light cleads of smoke. The unificial countries of mountains, where sowny commits make them look as thosely covered by fours, recalled to my memory the

though overed by four, resided to my messary the surface of a storm-beston costs. If I looked towards the west, the costs lay before me is all its majestic grandeur, a continuation as it were, of these flexy hillions. It was impossible for the systo distinguish where the land ended and the sea

I soon fall that strongs and mysterious recordion which is avoidanced in the mint when looking down rhem in the mint of the mint of the mint of the without any feeling of serverances, having forremetry hardward myself to that like of assistanwhen I was. I become introduced with a seasof betty sallimity, without thought of the abyeses more without my mint of the mint of the mint of the like I was presently brought and to the resilites which my deep mint of the mint of the mint of the object.

My unch, terring in a westorly direction, pointed out to me a light cloud of vegor, a kind of hasa, with a faint outline of lead rising out of the waters. "Greenland" and he. "Greenland" cried I in reply. "Yes," contrained my unch, who always when onplaining anything, replot as if he was latitudes to be a proper of the water of the contrained of the leaders of the contrained my unchanged.

the great armual break up of the tre takes place, white bears come over to leaked, carried by the feating mosesce of the frem the areth. This, however, is a matter of little consequence. We are now on the summit of the great, the transcendent Steffels, and here are its two peaks, nepth and south. Hense will tell you the answe by which the people of

fels, and here are its two peaks, nepth and south. Hence will bell you the name by which the people of Rechard call that on which we stand." My uncle turned to the importurabile guide, who models and apples as unreal-one word. "Scarfarts." My uncle looked at ne with a proof and triumphant risease. "A center," be suit, "you hant?"

I did hear, but I was totally unable to make regit;
The crater of Mount Species represented an inverted core, the gaping orifice apparently half a mile across; the depth, indefinite feet. Consider wheat this Ade much have been like when full of

for in circumference, by wheal it will be seen that the slope from the summet to the bottom was very gradual, and we were therefore clearly able to got destroy, to suppose that craite to an accommunitation of stript, a compression completely stratified we cannot and the compersion completely stratified me. "To discond into the interprise of a currons." I will go off at the least about, in the act of a modrans."

mass."

But there was no longer any opportunity for me
to heritate. Hens, with a perfectly calm and indifferent air, took his usual part at the head of the
adventurent little hand. I followed without utter-

abrequired is that think, I retails out the heath led to the simple of the property of the property of the think led to the simple of the property of the property of the contract to order to resolve the descent less difficult. Here to the think of the property of the contract to the total of the property of the property of the contract to long trade to the section of followed by equally long costs to the west. It was necessary to will be through the midst of greatly to read some of which.

chales in their balance, went rolling down with timularing clame to the bottom of the shyes. These continual falls awake robove of singuistr power and Many portions of the core consists of infarire placins. Hans, whenever he mot with one of these chalesis assumed with a great above of pressuring, sounding the enow with his long iran pole in order to discover interest and layers of deep oft, more.

meanistry for its to fir tild together by a long role in order that should are now of us be unfortunate in order that should are now of us be unfortunate process. This connecting link was doubtless a parallel to the contract of the contra

reshed by a short cut to the bettem of the alyse.

By min-day we were at the end of our journey. I booked upwards, and saw only the upper ortice of the one, which served as a circular frame to a very small portion of the styn—a portion which accord to me singuistry beautiful. Should I ever again goze on that lovely sunfit text?

on that lovely sunfit sky!

The only exception to this extraordinary hundscape, was the Peak of Scartaria, which seemed lost in the great void of the heavens.

The bettern of the crater was composed of three superate shafts, through which, during periods of cruption, when Sneffels was in action, the great central fermaces such forth its burning laws and

central fermans such forth its burning laws and poissons vapors. Each of these chimners or chaffus gaped open-monthed in our path I kept as far sway from them as possible, not even venturing to take the faithest peep downwards. As for the Professor, after a rapid examination

of their disposition and characteristics, he been breathless and posting. He ran from one to other like a delighted school-boy, gusticulating w

other like a delighted school-boy, genticulating wildly, and uttering incomprehensible and disjointed phrases in all sorts of imguages. Hans, the guide, and his humbler companions seated themselves or some pains of laws and looked affectly on. They clearly took my uncle for a bunatic and—waited the result. Sudjenly the Professor attored a wild, uncertain orv. At first I insertnot he had bot his footing, and

cay. As first I integrated he had loot his footing, and was failing baseling into one of the yawning guida. Nothing of the kind. I saw hum, his arms spread out to their wholest existed, his layes attending spart, attacking upright bafore am entermous probated, high exought and hinds strough to bear a gapaths obtain account and hinds strough to bear a gapaths obtain attending the strong of the same and the strong attending to the strong of the same and the same attending to the strong of the same and the same defended to be widely as, "Harry! Harry! come

here?" he cries; "make heste-wonderna-word et dans, it assume seven only reasons defull?" Canaly leaded for six mere days, we should have Unable to understand what he meant, I turned to put off our worage of discovery for another year, to abov he commends. Notiber Hans, nor the other when they would certainly he area person fewer in

to slopy has communical. Notither Haza, nor the other localization moved a stop, "Lock!" said the Professor, in something of the manner of the Prench general, pointing out the presenting to this army. And fully partialing his superfortion, if not his jay, I read on the eastern side of the huge block of stora, the same characters, half eaten wave for the corrective action of time,

at was totally impositing for me to a newer a single word. I went back to my pole of lave, in a state of alient asse. The evidence was unanswerable, overwholming! In a few moments, however, my thoughts were for away, back in my German home, with Gretchen

are deby, done in my termini mans, with Criterius of my consists amiles, for one of the actiont densestate consists amiles, for one of the actiont densestate consists a miles, for one of the action densestate consists, and for my own reather heal flow long I remained in this state I know out. All from lativas my horis, there exceeded at the historium of the critery only myself, my under and Hana. The Itelantile perters had been diministed and were now decounting the extract he along a Charles of the my decounting the extractive along at Ontol Street.

fels, on their way to Stope. How starting on a wish myself with them!

Hens skept transpally at the foot of a rock in a kind of roll of lava, where he had made hinnelf a rough and ready hed. My uncle was walking about the batten of the crafter like a wild beaut in a cage. I had no dealer, neither had I the strength, in wreee fram we regumbant seedites. Taking ex-

sample by the guide, I gave way to a kind of paint's semmokency, during which I seemed both to hear and fiel continual heavings and shadderings in the mountain. In this way we passed our first night in the interior of a crater. Next morning, a gray, chooly, beavy sky henz

life a funeral-pall over the summit of the volcanic cone. I did not notice it so much from the obscurity that religned around us, as from the rage with which my much was devoured. I fully understood the reason, and again a glimpor

followed by the adventurous Sakussesen, According

and non-ry a man neutry man amount of any or and nonserious acception, possible to deposit the implient request Perforance Hardwige. The day peaced, man not the fraintest collains of a shadow could be seen at the bettern of the cruter. Heave, the guide, nearest moved from his place. He wast have been carriage to know what we were about, if finded he could believe we were about anything. As for my uncle, he never addressed a word to me. He was marine his words to know that the country is an ex-

placen hideous with suppressed passion. Never saids has yes supposed to force, his no ee on aquilles, his has yes supposed to force, his no ee on aquilles, his De the 28th, no shazer for the better. A mixture of rain and stoor field during the whole day. Hence very quietly built himself a last of lave, has which he redfered like Diogeness into his tot. I took a resideous delight in watching the thousand tittle a supposed by the contract of the contract of the according with himself all limes a stream of above 5 too

if the "resty deep" below.

If you need was almost frantic; to be sure it was
decough to make swee a petitor man angry. He hadt-resolut to a certain extent the goal of his desires,
and yet he was histly to be wrecked in portBut if the heavens and the elements are capable
of consisting us much pain and sorrow, there are two

of colding is third path and servey, that are two sides to a medial. And there was research for Professor Hardwige a brilliant and solder surpredwhich was to compensate thim for all the sufferings, which was to compensate thim for all the sufferings, the Stch, the last day but one of the menth, with a sublint charge of wast and as new room there came a charge of weather. The sun poured its beaming rays to the very hottom of the crashes.

Bach hillook, every rock, every sizos, every accept of the sail had its abarc of the fourheas of cliphone, and its shadow fell heavily on the self.

Among others, to his meson delight, the disadow of Scartaris was marked and char, and moved slewly go with the radigant star of day.

My medic remond with it, in a state of moved.

enstary. At twelve o'clock exactly, when the sun had attained its highest altitude for the day, the shadow fell upon the edge of the central pit! "Here it is," gasped the Professor is an agenty

of hope made my heart hop with joy. I will brostly of joy, "here it is—we have found it. Forward my explain the cause. Of the three openings which friends, jot the laterier of the Earth waves dependent our steps, only one could have been I looked correctly at Rham to see what reply he

A TRIP TO THE CENTER OF THE EARTH

would make to this terrific announcement. "Forust," said the guide tranquilly.
"Forward it is," answered my uncle, who was now in the soventh beaven of delight.
When we were quite ready, our watches indicated thirteen minutes must one.

CHAPTER XIV

THE SEAL JOURNEY COMMENCES

UR real journey economous. Eitherto our courage and determination had overcome all that was all. Now, unknown and fearful diangues were to be ascenatored.

Thind not as yet weathred to take a glimpas down

the horrithe shyes into which in a few number more II was about to plung. The final numeral had, how aver, at hot arrived. I had still the option of re-fining or accepting a share in the fooths and ensistent extrayels. But I was askinned to show more four than the dependent numeral. Hens secreted four than the dependent numeral. Hens secreted to four than the dependent numeral. Hens secreted to with such only the still the secretary of the still the secretary of the secretary o

arroad the point fully; but in the presence of the guide I hadd my fonger. I give one moment to the thought of my charming content, and then I advanced to the mouth of the central skell. It is always and which made short a bundred feet in dismater, which made short a rook which cheed on its often, and termed, my limits trembed, I search utbrilly to hear my canter of gravity, while my head was in a sett of which life that of a drunken mn. There is not-

or with the tasks of worthfact man. There's scheme, shows. I was short to full braddeng into the againg well, when I was drown back by a firm and powering hand. It was that of Hans. I had not taken leaden accough at the Prolect's-krit of Copenhagen in the art of looking dwar from brity unissense without blinking!
However, for the minutes were during which the control of the control of the control of the con-

However, few as the minutes were during which I gread down this tremscolous and even wondress shaft, I had a saffelent glimpse of it to give me acros felso of its phyritad conformation. Its adea, which are simost as perpendicular as those of a well, presented numerous projections which doubtless would assist our descent.

It was a sert of wild and savage staircase, without beamitter or fance. A rope fastaned above, near the surface, would certainly support our weight and enable us to reach the hottom, but how, when we had arrived at its nethermost depth, were we to loosen it shows? This was, I thought, a quantitud

of none importance.

Much, however, was, as usual properted with
expedients. He fut upon a very shapes method of
elevations. He fut upon a very shapes method of
elevations to my thomat, and at least four humbred
feet in haspit. He allowed shoot half of it to
go down the pit and cutch in a hitch over a great
hales of laws which stond on the other of the

precipios. This done, he threw the second half in about he after the first.

Rach of us could your descend by eathline the incline some in

two cords in one hand. When ascut two hundred feet below, all the explorer hail to do was to let go one and and pall sway at the other, when the cord would come failing at his feet. It, order to go down farther, all that was necessary was to contitive the same operation. Going down thus appeared to me easy enough, it was the coming up that now occurried my thoughts.

"Near" and my mole, as soon as he had completed this important preparation, wife to use about the beggage. It must be divided into three separate generals, and such of us must carry one on his back, in this lot the more important and fragine scattles," consider that we cause under that descentiation, "Hone," he continued, "you will take charge of the tools and soon of the provinces; you, Harry, must take concessors of mother thank of the provinces the concessors of mother thank of the provinces.

"But," I exclaimed, "our clothes, this mass of cord and ladders—who will undertake to carry them draw?"

ora ind indigen-was will interrace to carry them down?" "They will go down of themselves." "And how so?" I saked. "You shall see." My under was not foul of half

measures, too field in this anything in the way of hesitation. Given this orders to fines, he had he hesitation of the profession and the state of the whole of the profession articles made up into one hundle; set the protest from the office of the quit. was simply pitched over the edge of the quit. and the notice of thilling detans. My until hamiltoover the alyan followed the descent of his lugrages with a periodic sub-leadantial art, and did not rise until it had completely disappears from sight. I was it in good full's to say must of common

suser—says. Il possible to have fifth exception varieties without a shadow? The reference fastered like core without a shadow? The reference fastered like core the tool, 1 of the street. The describ that we make it is the following core of the tool, 1 of the street. The describ that we make it is the following core of the following core of the first of possible conductions of true following conductions of the first of the f

n sgilly and doing miracles in the way of feats of desterrity and strength upon the prejecting sholves he and spars of lows which my feet seemed to clubch no strongty as my hands.

The guide west first as I have seld, and whan of one of the slippery and frail supports broke from

to under his feet be had recourse to his name monesyllable way of speaking, "Oif-akt.——" he "Attention—look out," repeated my uncle, if In about half an hear we reached a kind of Hans now began to haul open the cord on one side "We have reached the end of our journey," said the worthy Professor in a satisfied tone. "What, the interior of the earth?" said L after of small stones, lava and dust, a disagregable kind

While we were seated on this extraordinary banch visible. Were we then, come direct to the interior The performance with the cord recommenced,

and a practice of an hour later we had descended as-

I have very strong doubts if the most determined the nature of the different layers of earth around

him. I did not trouble my head much about the matter; whether we were among the combustible carbon Sflurlan, or primitive soils, I neither knew

Not so the inveterate Professor. He must have taken notes all the way down, for, at one of our halts, he began a brief lecture. "The farther we advance," said be, "the greater is my confidence in the result. The disposition of these volcoms strata. absolutely confirms the theories of Sir Humshrey Dasy. We are still within the region of the primardist sell, the soil in which took place the chemical

exidation of metals becoming inflamed by coming in contact with air and water. I at once rewret the old and now for ever exploded theory of a central fire. At all events, we shall soon know the truth." Such was the conclusion to which he came was very far from being in humor to discuss the

was taken for consent; and still we continued to At the emiration of three hours, we were to all appearance, as far off as ever from the bottom of the well. When I looked unwards, however, I

could see that the upper orides was every minute decreasing in size. The sides of the shaft were petting closer and closer together, we were any proaching the regions of eternal night! And still we continued to descend! At length, I noticed that when pieces of stone were detached from the older of this stupendous precipics, they

were swallowed up with less noise than before. The the bottom of the abysa! As I had been very exceful to keep account of all the changes of cord which took place, I was able to tell exactly what was the doubt we had reached, as

well as the time it had taken. We had shifted the rope twenty-eight times, each operation taking a To this had to be added twenty-eight pauses; in all now, therefore, about eleven o'clock at night It does not require great knowledge of arithmatic

makes five thousand six hundred feet in all (more While I was making this mental calculation a

I checked myself wary suddenly, just at the

"No. you stored fellow! but we have reached the "And I suppose there is no farther progress to be made?" I honefully exclaimed.

"Oh, yes, I can dimly see a sort of tunnel, which turns off obtiquely to the right. At all events, we must see about that to-morrow. Let us sup now,

and seek slumber as bust we may. I thought it ture, but made no observations on that point. I was fairly launched on a desperate

It was not quite dark even now, the light filtering down in a most extraordinary manner. We opened the provision bag, ate a fragel supper, and each did his best to find a bed smid the pile of stopes, dirt. and lave which had necessalated for ages at the

rile of ropes, ladders, and clothes which we had thrown down; and upon them I stretched requisit After such a day's labor, my rough hed seemed as soft as down! For a while I lay in a sort of pleasant trance. Presently, after bying culetly for some minutes, I oregod my even and looked property. As I did so

made out a brilliant little dot, at the extremity of this long, gigantic telescore, It was a star without scintillating rays. According to my calculation, it must be in the constellation of the Little Bear. After this little bit of astronomical recreation, I dropped into a sound

CHAPTER XV WE CONTINUE OUR DESCRIPT

T eight c'clock the next morning, a faint kind of dawn awoke us. The thousand and one prisons of the lave collected the light as it passed and brought it to us like a shower of marks. We were able with ease to see objects around us. "Well, Harry, my boy," gried the delighted Profersor, rubbing his hands together, "what say you new? Did you ever pass a more tranquil night in our house in the Koulg Stresse? No denfening sounds of eart-wheels, no ories of howkers, no bad

language from bootmen or watermen?" "Well, uncle, we are quiet at the hottom of this well-but to me there is something terrible in this calm." "Why," said the Professor, both, "one woold see

you were already beginning to be afruid. How will you out on presently? Do you know that as yet, we "What can you mean, sir?" was my bewildered

"I mean to say that we have only just reached

"Quite sure. Consult the barometer."

was taking place, had alopped precisely at twestyman incluse. "You precise", and the Professor, "we have as yet only to endure the greater of sir. I am curiests to replace the bereaster by the manusater." The harconter, in fact, would become uncleans so one as the wright of the alr was greater than that calminted as about the level of the ocean. "Ban," and I, "is in the very mean to be forced that this even-increasing pressure may not in the end turn out every platfol and inconvenient."

that this even-recensing pressure may not include one turn on very pointful and inconvenient?"
"No," said he. "We shall descend very showly, and our image will be gradually sociationed to heeathe compressed size. It is well known that adversarial how geans so high as to be nearly without air at all many geans so high as to be nearly without air at all and the second size of the second size of the residue size. It is secretary a little too mank of 11. For regard, I am certain 1 shall perfor it. Let us

For myself, I am certain I shall profer it. Let us no less a moment. Where is the pocket which preceded us in our descent? I smillingly pointed it out to my unds. Hans had not seen it, and believed it cought somewhere shows

not seen it, and believed it caught conswhere showe us; "hippe" as he phrased it. "Now," and my under, "set us breakfast, and break fast like people who have a long day's work before them."
Bisquit and dried meat, washed down by some

mostbuls of water favored with achiefum, was the material of our luminous meal. As seen as it was finished, my undertook from his pecket a note-book destined to be filled by memorands of our travels. He had already placed his instruments in order, and this is what be wrote:—Honday, July lat. Chromometer, Sh. 17m. moraline. Respector, 29

26. S. E. S. Sale characteristic referred to the characteristic they, and was indicated to us by the compans.

"Now, Marry," evided the Professor, in an examination of vious, "was are truly about to take our first step into the Interior of the Karth; once there wind by man since the first creation of the factor, which by man since the first creation of the precise moment our travels results commerce."

As my under made this remark, he took in one

hand the Schmiczt cell apparatus, which home around his neck, and with the other he put the electric current in communication with the filament of the instant. Act a bright light at one sillumined that dark and ghoesy tunnel! The effect was magical!

Hans, who carried the second apparatus, had it put into operation toe. This imperious cardioation

of electricity to prestrict jumposes enabled on to move along by the light of an artificial day, said even the flow of the most inflationable and comhastible gases. "Ferward!" cried my unde. Each took up his burden. Hens group farst, my cash following, I going third, we entered the somber gallery! Just as we were about to engult courselves in this dirental passage, I lifted up my head, and through the threlike lastfit it awe that bolland alp! usan sever to one

mine shart! as we that hostend sky! I was never to son again! Was it the hart allowed ever see of any sky? The stream of laws flowing from the bowels of the earth in 1230, had feeced though a passage through the tunnel. It lined the whole inside with its think and intilliant costing. The electric light abded very greatly to the brilliancy of the offset. The great difficulty of our fourcey now began. How were we to present earneless from singuage down the stoophlockined planel. Happily seems crucks, shraumen of the soil, and other irregularities, served the pints of steps; and we descended about, allowing our heavy lagrange to allo on before us, at the end of a long cond.

Did have been seen seem of the end of a long cond. With correct as seen more our feet.

Did have been seen seen correct free process in corriging slave, note the serve of the process in corriging allows. Both the serve of the

Dut that which served as steps under our feet, because in other piece substities. The leave, very power in color piece is substities. The leave, very power in certain piece, took the form of Bittle roand bilaters. Crystika of opaque quarte, adorsed with limpid drops of asturar piece surprosed to the read the batters, secured to take fire as we passed when the piece of the piece o

"Magnifisch! Gorton!" I evid in a monero in invalentary enthusian, "short a specieta, mobile De you not admire these variested andain of laws, which run threath a whole series of colors, from results brown to pete yellow—by the most incastible degrees? And these crystals, they appear like incomess globes." "You are beginning to see the charms of treed."

Matter Harry," evod my untia. "Weit a bit, until we advance farther. What we have as yet discovered to subling—cawards, my boy, cowards."

It would have been a far more correct and appropriate expression, had be said, "let us aithe," for we were conjugated own an inclined plane with personance. The ecorpass indicated that we were moving in a nonthe-sasterly direction. The fow of law had

never turned to the right or the left. It had the infeachility of a straight lim.

Nevertheless, to my surprise, we found so perceptible torseas to best. This proved the theories of Humphrey Davy to be founded on truth, and more than cost I found sayed examining the thermometer in silent associations. Two bears after my departure it donly marked 5 degree I Markealth. I had every reason to believe from this that our decent was for more hardseast laten vertical. As

my departure it only married 64 degrees Fibrachait. I had every reason to believe from this that our descent was far more hardmarked than workless. As for discovering the exact degath to which we had all the forest discovering the exact degath to which we had all the bar elevated, measured the angies of deviation and indisastion; not hak kept the result of the observations to himself.

About eight o'clock in the orening, my uncle gave the injust for the present. The lumps were hamp to finence of the ground. The lumps were hamp to finence on the ground in The lumps were hamp to finence on the ground.

as the Ferrouck. This bears were haur to forcers of the days and twentiles, on the quatery of household. With could be the came of them-to what a What could be the came of them-to what at the case to disterment the could be the case to district the case to disease just then. Posters not transc made us besent just then, Posters and transc made us leterment to the could be the case to discession of the could be the case of the case of the second to the could be the case of the case of the of the could be the case of the case of the second to the case of the case of the case of the land did displayed to capital the case of the case of the case, annot at great mandam—ear variety or however, annot at great mandam—ear variety or however, annot at great transfers—ear variety or however, annot at great transfers—and the case of the holder to what the case of t

absurce of springs?" he said. (Continued on page 135)

TESMERIC REVELATION By Edgar Allan Poe

of will, can so im-

those of death, or then more nearly. dition within our commission; that, while in this

effort, and then foobly, the external organa of sense. wond the scope of the physical organo; that, more-

era so needless a demonstration to-ley. My nurnose at present

between a sicco I had been lone aon in question (Mr. Van Kirk)

and the usual acute exultation of the magneric percep vened. For many months he had der confirmed phthisis, the more manipulations; and Wednesday, the fifwas summoned

> The invalid was auffering with

culty, having all the ordinary symptoms of esthrafrom the application of mustard to the nervous

ful smile, and although evidently to much bodily

tally, quite at ease. "I sent for you to-night," by chal impressions which, of late,

you how septical I have hitherto there has always existed, as if been denying, a vague half-sentiattempts at logical inquiry resalted, inteed, in leaving me

MESMERIC REVELATION

well as in those of his European and American sekoes. The 'Charles Elwood' of Mr. Brownson, for example, was placed in my hands. I read it with profound attention. Throughout I found it logical, but the portions which were not merely logical were unhanofly the initial arguments of the du-

believing here of the book. In his summing up it seemed evident to me that the reasoner had not even succeeded in convincing himself. His and had plainly forgotten his beginning, like the government of Tringolo. In abort, I was not long in per-

of his own immertality, he will never be so convinced by the more abstructions which have been France, and of Garmany. Abstractions may amuse and spercies, but take no hold on his mind. Here tellect, naver

"I revest, then, that I only half full, and never intellectually believed. But letterly there has been a certain deepening of the feeling, until it has come so nearly to resemble the acquiescence of reason. that I find it difficult to distinguish between the two. I am enabled, too, plainly to trace effect to

my masning than by the hypothesis that the meameric exaltation enables me to perecive a train of vinous, but which, in full accordance with the menmeric phenomena, does not extend, except through ing, the reasoning and its conclusion—the cause and its effect-are present together. In my natural state, the cause vanishing, the effect only, and per-

haps only partially, remains, 'These considerations have led me to think that some good results might enoug from a series of well-directed quantions propounded to me while self-cognimence observed by the sleep-waker-the extensive knowledge he displays upon all points relating to the meameric condition Steelf; and from

this self-cornitance may be deduced hints for the proper conduct of a catechism." I consented, of course, to make this experiment, sleep. His breathing became immediately more

say, and he memed to suffer no newsical resemble nose. The following conversation then enspect -- V. in the dislogue representing the nationt, and P.

P. Are you asleep? Yes-no; I would rather sloop more soundly P. [After a few store panes.] Do you sleep now?"

V. Yes. P. How do you think your present illness will V. [After a long heritation and speaking as if solth (fort.) I must die. P. Does the idea of death afflict you?

P. [Very quickly.] No-no! P. Are you pleased with the promect? V. If I ware awake I should like to die, but now sixtible inslituation to class it with spirit, or with

V. I am willing to do so, but it requires mora effort than I feel able to make. You do not question P. What then shall I ask? V. You must begin at the beginning. P. The beginning! but where is the beginning? V. You know that the beginning is God. [This

war said in a loss, Ancingting fone, and with every [Hesitating for many minutes.] I cannot tell.

it is no matter. The mesmeric condition is so near

V. While I was awake, I knew what you meant by instance as truth, beauty-a quality, I mean, There is no immaterial ty-it is a viere word

P. In God, then, material?

V. No. This raply startled me very much. P. What then is he? V. [After a long posse and mutteringly.] I see-

but it is a thing difficult to tell. [Another Jone peace.] He is not spirit, for be exists. Nor is he matter, as you resideratural it. But there are gradutions of matter of which man known nothing; the

a matter superfieled - without particles - unitvithings and thus is all things within itself. This matter is God. What men attempt to embody in the P. The metaphysicians maintain that all action

is reducible to motion and thinking, and that the V. Yes; and I now see the confusion of idea. Motion is the action of mind-not of thrubus. The And the power of solf-movement (equivalent in effect to human volition) is, in the unparticled mat-

know. But the unresticled weather not in motion by law, or quality, saisting within steelf, is thinking P. Can you give me no more precise idea of what you term the apparticled matter?

a metal, a piece of wood, a drop of water, the atmosphere, a gas, calcric, electricity, the luminiferent ether. Now we call all those things matter, and

embrace all matter in one general definition; but in state of this, there can be no two ideas more eases. tially distinct than that which we attach to a matal and that which we attach to the inminiferous other.

When we reach the latter, we feel an almost irre

here, even, we have to seek and from our notion

of an atom, as semething passessing, in infinite minuteness, solidity, pulpability, weight. Destroy the idea of the atomic constitution, and we should no longer be able to regard the other as an entity, or at least as matter. For want of a better word we might term it spirit. Take, now, a step beyond more rure than the other, as this other is more rare all the school dogmas) at a unique mass-an un-

mibility. The only consideration which restrains us

particled matter. For sithough we may admit intude of littleness in the spaces between them is an absurdity. There will be a point-there will be a degree of rarity, at which, if the atoms are suffielently numerous, the interspaces must vanish, and the many absolutely enalesce. But the consideration of the atomic constitution being now taken away, it is as fully motter as before. The truth is, it is that we have formed its conception, we have marely decrived our understanding by the consideration of

P. There seems to me an incorrespondable ablect tion to the idea of absolute confrorence; -- and that is the very slight resistance experienced by the -a resistance new accertained, it is true, to exist in some dorren, but which is, nevertheless, so allow even of Newton. We know that the registrates of solute conlescence is absolute density. Where there are no interspaces, there can be no vielding. An ether, absolutely dense, would put an infinitely more

effectual stop to the progress of a star than would an ether of adamant or of iron V. Your objection is answered with an ease which shillity.-As regards the progress of the star, it can make no difference whether the star passes through astronomical error more unaccountable than that which reconciles the known retardation of the comets with the iden of their passage through an ether for, however rare this ether be supposed. it far briefer period thun has been admitted by those

astronomers who have endoavered to slur ever a other hand, about that which might be expected from the friction of the other in the instantaneous passage through the orb. In the one case, the re-Steelf-in the other it is endlessly accumulative,

P. But in all this-in this identification of more speed than mind? But you forget that the matter

schools at the same time. God, with all the rowers. P. You assert, then, that the unperticled matter, V. In general, this motion is the universal thoughts of the universal mind. This thought creater. All created things are but the thousands P. You say, "in general,"

or "spirit" of the schools, so far as regards its high capacities, said is moreover, the "matter" of these

V. Yes. The universal mind is God. For new individualities easily is necessary. P. But you now speak of "mand" and "matter" . Yes-to avoid confusion, When I say "mind."

I mean the unparticled or ultimate matter; by "mat-P. You were saving that "for new individualities matter is necessary." V. Yes; for mind, existing unincorporate, is merely God. To create individual, thinking beings. it was necessary to incornate portions of the divine mind. Thus man is individualized. Divested ed

ular motion of the incarnated portions of the unparticled matter in the thought of man, so the mo-P. You say that divested of the body man will V. Lafter much hasitation.] I could not have said this; It is an abourdit P. [Referring to our notes.] You did say "that divented of corporate investiture man were God. V. And this is true. Man thus diverted small he

be thus divested-at least never sold be-else we -e purposeless and futile action. Man is a crea-P. I do not comprehend. You say that man will

V. I say that he will never be bediless. V. There are two brillian-the redimental and the

complete, corresponding with the two conditions of Our future is perfected, ultimate, immortal. The P. But of the worm's metamorphosis we are nal-

V. We, certainly-but not the worm. The matter the ken of the organs of that hody; or, more distinctly, our rudimental organs are adapted to the matter of which is formed the radimental body; but not to that of which the ultimate is composed. The ultimate body thus escores our rudimental sonses, and we perceive only the shell which falls, in decaying, from the inner form; not that trace is appreciable by those who have stready acquired

P. You have often said that the meameric state very nearly resembles death. How is this? V. When I say that it recembles death, I mean that it resembles the ultimate life; for when I am abeyance, and I perceive external things directly, without organs, through a medium which I shall employ in the ultimate, unorganized life,

V. Yes; organs are contrivances by which the individual is brought into sensible relation with particular classes and forms of matter, to the exclusion

are adapted to his rudomental condition, and to that only; his ultimate condition, being unormanised, is of animited consprehensions in all points but one -the pature of the volition of God-that is to say, it to be entire brain. This it is set; but a concention of this astere will hring you near a compreheneton of what it as. A luminous body imports vibration to the luminiferous other. The vibrations communicate similar coes to the outic nerva. The perve convers similar ones to the brain; the brain. also, similar ones to the unparticled matter which permeates it. The motion of this latter is thought. of which percention is the first madelation. Thus is the meds by which the mind of the radimental external world is, to the radimental life, limited through the idiosynersay of its organs. But in the ultimate, unormanized life, the external world reaches the whole body (which to of a substance having affinity to brain, as I have said) with no other intervention than that of an infinitely report

other than even the luminiferous; and to this either it. It is to the absence of idjosyncratic organs, therefore, that we must attribute the nearly unlies. ited perception of the ultimate life. To redimental P. You sneek of rudimental "belora." Are there

other redimental thinking beings than man? V. The multitudinous conglomeration of rare matter into pebula, planets, suns, and other hodies, which are neither nebule, cone, nor planete, is for the sole purpose of supplying pababase for the idiobeings. But for the processity of the redirected prior to the ultimate life, there would have been no bodies such as these. Each of these is terested by a distinct variety of organic, rudimental, thirleing creature. In all, the organs vary with the funtures of the place tenanted. At death or restamorphosis, these creatures, enjoying the phimate the one act all things and pass everywhere by mere welltion:-- indwelling, not the stare, which to us sects the sole palpabilities, and for the accommods-

-blotting them out as non-entities from the percen-P. You say that "but for the necessity of the

radimental life, there would have been no stars. V. In the morganic life, so well as in the inorganic matter generally, there is nothing to impede P. But again-why need this impediment have heen produced?

V. The result of low inviolate is perfectionright-negative harminess. The result of law rice lete is imperfection, wrong, positive pain. Through the impeliments afferded by the number, comcertain extent, practicable. Thus now, which in the

P. And to what good end is pain thus rendered possible?

V. All things are either good or had by comparison. A sufficient analysis will show that pleasfive pleasure is a mere idea. To be happy at any one point we must have suffered at the same. Naverto suffer would have been never to have been blessed. But it has been shown that in the incr-

game life, pain carnet be; thus the pecessity for the organic. The pain of the primitive life of Rusch P. Still there is one of your expressions which I find it impossible to comprehend-"the truly sub-V. This, probably, in because you have no suffi-

ciently reperse conception of the term "sudetmace" itself. We must not regard it as a quality, but as a sentiment .- It is the perception, in thinking zation. There are many things on the Earth which not be brought to approxime as existing at all. But. to the inorganue beings-to the angele-the whole of the unparticled matter is substance; that is to say, the whole of what we term "scood" is to them the trucet substantiality-the stars, mountime, through what we consider their materiality, escening the argelic sense, just in proportion as the superticled matter, through what we consider its

As the elect-waker propagated these letter words in a feeble tone, I observed on his countersuce a singular expression, which somewhat playmed me. all his features, he fell back men his reliew and expired. I noticed that in less than a minute afterward his corpse had all the etern rigidity of stone His brow was of the coldress of ice. Thus ordiparily, should it have appeared, only after long pressure from Agrael's hand. Had the alconorder. indeed, during the latter portion of his discourse been addressing me from out the region of the Absdows?

THE END

The CRYSTAL EGG



currously variegated. They comprised some elebeads and weapons, a box of glass eyes, two skulls morious (one holding a lamp), an old-fashioned tackle, and an extraordinary firty, empty glass fish-tank. There was also, at the moment the story

of an egy and brilliantly polished. And at that looking, one of them a tall, thin clergyman, the other a block-bearded young man of dusky complexion and unobtrusive costume. The dusky young

WEEKE was, until a year ago, a little and very gramy-looking thep near Seven Diale, over which, in weather-worn

yellow lettering, the name of "C. Care, Naturollet and Dealer in Antiprition."

was macribed. The contents of its window were

While they were there, Mr. Cave came into his shen, his board still wagging with the bread and botter of his ton. When he saw these wen and the object of their regard, his countenance fell. He glanced guiltily over his shoulder, and noftly shut and peculiar watery bine eyes; his hair was a dirty

over, and he were a shabby blue frock-cost, an antient silk hat, and carpet allippers very much

ned when they came into

The clargyman, without Mr. Cave glosced norvously towards the door leading into the perior.

Mr. Cave, that the price very much more than Mr. article-and an attempt at bargaining coused. Mr.

Cave stepped to the shopfoor, and held it spen-"Five pounds is my price," he said, as though he wished to save himself the trouble of unprofitable discussion. As he did so, the upper portion of a woman's face appeared above the blind in the glass upper namel of the door leading into the parlor,

and stored corionaly at the two costomers, "Five nounds is my price," said Mr. Cave, with a quiver The swarthy young man had so far remained a spectator watching Cave knumly. Now he spoke, "Give him five pounds," he said. The elergyman glanced at him to see if he were in carnet, and, when he looked at Mr. Cave again, he saw that who ended this curious controversy. He proposed that they should call again in the course of two

We recommend this amoring story to you.

If a civilization on mother world were assertime to com-

our throughout that it may, 5,000 years from note be quite

showed his teeth in an agreeable smile. Mr. Cave HIRR is a tremendous story by one of the creature lic-

Cave, not to take the sentleman's offer!"

THE CRYSTAL EGG

good price for it. I can't think what you're about,

She was a course-festured, cornelent woman, walked heavily, and her face was flushed. "That

able purchaser of it had already appeared. The two treating this as an attempt to raise the price still further, made as if they would leave the shop. But at this point the parler door opened, and the owner of the dark fringe and the little even

of considerable intimacy. This wave Mr. Core an opportunity of collecting his thoughts, and he began to explain in an agitated manner that the crystal sale. His two sustemers were naturally supprised at this, and increived why he had not thought of that before he began to harvoin. Mr. Case became

the latter's face was white. "It's a let of money,"

said the clargyman, and diving into his pocket. began ecuating his resources. He had little more

than thirty shillings, and he appealed to his companion, with whom he seemed to be on terms

Mr. Cave, greatly perturbed by the interruption, looked angrify at her over the rims of his spectacles,

to manage his business in his own way. An al-

terestion began. The two costomers watched the

ally assisting Mrs. Cave with suggestions. Mr.

possible story of an inquiry for the revotal that

meening, and his agita-

alleged enquirer a fair chance, "And then we grant insist," said the cler-gyman. "Five pounds."

Mrs. Care took it on herhusband, explaining that

odd," and an the two contomorn left, the couple

quesion of the incident in all its bearings. Mrs. Cave talked to her husband with singular direciness. The poor little man, quivering with emo-

tion, muddled himself between his stories, maintomer in view, and on the other asserting that the greeful was hopestly worth ten guiness. "Why did you sak five pounds?" said his wife. "Do let me manage my husiness my own way?" gald Mr. Cave.

Mr. Cave had living with him a step-daughter and a step-son, and at supper that night the

transaction was radiscussed. None of them had a very high opinion of Mr. Cave's business meth-

AMAZING STORIES

eds, and this action recenced a calminating felly.

"Its my opinion he's refused that crystal befers," and the step-son, a loose-limbol into it
clipiters.
"But Fire Poseds" said the step-daughter, and
"But Fire Poseds" said the step-daughter, and
"Great Hearman what has become of 18"
"Just than, Mr. Coe's step-son resentant the

"But Five Posendin" and the step-daughter, an argumentality young woman of school-driventy.

Mr. Cave's answer were wrecked; be could only mumble work answers were wrecked; be could only mumble work answers when the know his own tuniness best. Tany dreve him from his buffeaths support into the shop, to choos it for the night, his cars offers and tears of vecation behind his sectacies. "Why had be left the crystal in

his specures. We want to be the control to the window on long? The fully of it!? That was the trouble cleasat to his mind. For a time he could be en any of evalling the standard read attachment and attachment and attachment and wort out. His wife retired upotairs and over a lith's sugar and keens and so forth, in het water, reflected upon the busi-

and no forth, in had worker, related upon the busimen aspects of the crystal. Mr. Cowe work into the abony, and astroyd there until thes, attentibly to make the control of the control of the control of the first and the control of the control of the control later. The next day Mrs. Core found that the arguinal had been removed from the window, and angilitus. She replaced it in a complexious position, the control of the control of the control of the Business of the control of the control of the Business of the control of the control of the Business of the control of the control of the Business of the control of the control of the Business of the control of the control of the second of the control of the control of the second of the control of the control of the second of the control of the control of the second of the control of the control of the second of the control of the control of the second of the control of the control of the second of the control of the control of the control of the second of the control of the control of the control of the second of the control of the control of the control of the second of the control of the control of the control of the second of the control of the control of the control of the second of the control of the control of the control of the second of the control of the control of the control of the second of the control of the control of the control of the second of the control of the control of the control of the second of the control of the control of the control of the second of the control of the control of the control of the second of the control of the control of the control of the second of the control of the control of the control of the second of the control of the control of the control of the second of the control of the control of the control of the second of the control of the control of the control of the second of the control of the control of the control of the second of the control of the control of the control of the second of the control of the contro

minded than usen, and uncommonly britished withel. In the afternoon, when this write was haiding her outsimary along, he removed the crystal from the window again. Once had to deliver a configuration of once also a single control with the configuration of once and the bayestal school and the configuration of once and the configuration of the c

comes, for these mission of examplifing outfails to a visitality of the ground. She had during devised are as a visitality of the ground. She had a related devised across of groun tills for bereaf and a trip to Robb common of ground tills for bereaf and a trip to Robb common of ground tills for bereaf and a trip to Robb common of ground tills for the previous of the ground of the ground to the ground of the ground to ground the ground of Mr. Cavet hands ground of ground ground the ground of Mr. Cavet hands ground of continuous and the ground of the ground to ground the ground the ground to ground the gr

five pounds and of her dreams. What was her surgerse to first it good! She went to the place behind the locker on the counter, where she had discovered it the day hafore. It was not there; and she immediately begins

so edges federed amount no easily.

When Mr. Cave returned from his husiness about
the dop-dah, about a quarter to two in the afternece, he found the chep in some confusion, and his wife, extremely exasparated and on her known hahind the counter, routing among his tandlermic material. Her face come up but and suggr over the counter, as the juxyling hell suncepted his reshop from the more recent—be had come home a minute or to before Mr. Cave—all be wan bise planning freely. He was apprentioned to a second-hand furniture, dealer down the read, but he had its instal at hero, and he was naturally analysed to find no dimen-ready.

But, when he heard of the free of the crystal, he freepst him man, and his super was directed from his necther to his step-father. That forts inion, of course, was that he had Molden H. But

ides, of course, was that he had hidden it. But Mr. Cave atomy denied all revealedge of its risk —dreety offering his behalvide affision in the medter-and at hat was varied up to his point of acting taken it with a view to a private sale. So began an exceedingly arrinosism and contents diseased, which ended fee Mr. Cave in a peculiar nervous condition mirrory between hybriders and amount, and caused the attraction of the property of Mr. Cave took reduge from this wide's medition in

In the evening the topic was rearmed, with less peaceds and in a more joiltical spirit, under the presidency of the stor-daughter. The supper peaced unhapsily and ended in a pointifurence. Mr. Gow guve way at lest to extreme excaporation, and went on hanging the form there vehicle. The rest of done which this shearce warranted, hundred the busic free graret to either, bogs to light upon the

The next type two cases we specially a second of the control of th

Core, attll dinging is hope, asked for the obergiant address, so that if also could set arrighing out of Cree, the might communicate it. The address was duly rever, lost apparently was afterwards minists. Mrs. Care can remember nothing about it. By the events of that day, be Crees soon to have estimated their emission, and Br. Cree, who is the contracted presently with the impassioned controvery of the previous days. For some time nathers were very hally statished in the

passioned controversy of the previous days. For some time matters were very halfy strained in the Cave household, but zeither crystal nor customer reaspeared. Now, without mineing the matter, we must admit that Mr. Cave was a lize. He know perfectly well where the crystal was. It was in the recome of Mr.

Jacoby Waco, Assistant Demonstrator at St. Catherine's Hospital, Westbourne Street. It should not be alchocard partially covered by a black where cloth, builds a decenter of American whisky. It is from Mr. Waco, Indeed, that the particulars upon which this nearrative is based were derived. Cave had taken the thing off to the hospital bilden in the disp-thin sky, and there had pressed the young investigator to keep it for him. Mr. Wace was a little disbous at first. His relationship to Grev wat and he had more than once jurited the aid and and he had more than once jurited the aid with a smaller than the control and of his rubber areasing visus of life in general and of his problem of the control and the control and control and the control and the control and control and the control and the control and of his home to attend to him. He know the constant interdence to attend to him. He know the constant inter-

formers to which Cave was subjected, and having sudjaced the story judically, he decided to give the crystal a refuse. Mr. Cave promised to explain the most fully on a later consider, but he spoke distinctly of saving visitous therein. He called on Mr. Water the saving visitous therein. He called on Mr.

Ware the same evening.

He told a complicated story. The crystal he said
had some into all pessession with other oddmarin
at the forced sale of santher curiseity dealer's
effects, and not knowing what its value might be

he had tickets if it is ten shillings. It had hung gone his bands at that petre for some morths, each be one thinking of "reciscing the figure," when he made a singular discovery.

At that time his health was very hed—and it must be borne in mind that, throughout all this expearce, his physical condition was one of the—and he was in considerable discress by reason di-

solved from his wife and losp-children. His wife was value, startogace, andeding, and had a growing thesis for private dritching; the step-chargeter was mean and ever-reaching; and his shop-sen had consolved a videter distillation for him, and had no better the startogach of the startogach of the histogac present beauty upon him, and Mr. Wood does not think that he was altesphere from from occasional informerances. He shot began the in a consolvable provision, be was a most of fair statesmather than and incontrols. Affects of to share his materialities and lineages.

simily, he would also quickly from his wife's salk, when his thoughts became intherable, and winder about the braze. And about three electric con morley, has in August, chance directed him site the slope. The dirty little place was impensivally black except in one upst, where he perceived an unusual give or light. Appreaching this, he discovered it to be

eept in one upst, where he perceived an unusual glow of light. Approaching this, he discovered it to be the crystal egg, whole was standing on the corner of the counter towards the window. A thin ray abut through a crack in the shutters, impliced upon the object, and seemed as it were to fill its entire interier.

It occurred to Dr. Cave that this was not in accordance with the laws of optics as he had known them in his yearaper days. He could understand the rays being reducial by the crystal and sensure to a form in the interior, but this discussy and the crystal zone country, percipt in the interior of the crystal zone country, percipt in the interior it, with a transfect revival of the scientific curiestry that in his youth had determined his schole of a culting. He was surprised to find the light not express the country of the country of the culting of the country of the country of the expression of the country of the country of the culting. He was surprised to find the light not express through the chiefet was a keller active.

ried it to the darkant part of the aboy. It remained hright for some for or flow matters, than it alsoly field and wont out. He plated it in the thin streak of daylight, and its luminosances was almost him modifiately restured. We wan able to wrife the permittable streng of Src Cave. He had himself the permittable streng of Src Cave. He had himself and to be of a smaller diamost than one milli motro), And in a perfect therefore, such as could be produced by what writinging, the crystal did to be produced by wwist writinging, the crystal did

come between it and the ray, and that the crystal

none the less remained luminous. Greatly as-

undaplately upone very finitity phosphereascent. It would seen, however, that the luminormous was of come exceptional surt, and not equally wishle to come exceptional surt, and not equally wishle to the primiter to the scientific reader in connection with the Future Institute—was quite smakle to see any the Primiter to the scientific seems of the properties infection to the seem of the seems of the seems infection to the seems of the seems infection to the seems of the

halor of his curious absorbed less. He same to have

ers admit the critistans of a pheasing would have been to risk the less of it. Be found that and the dawn advanced, and the anseemed of diffused light one could be seen to the seen of the country of th

day-time. He was very cultitus sent his steella set than efficience by his welf, and he prestited this occupation only it at letterness, while she was astign upstain, and then pleasurapedly in a below under the counter. And use dist, turning the crystal about in his hands, he saw vestochting. It comes about in his hands, he saw vestochting, it comes about in his hands, he saw vestochting. It comes then the dipet had for a monared queen to him the view of a work and spantius and attrange country and, turning it about, he did, just as the light hales, see the same vision agelia.

finish, are the same vision applications of the property from this point. Suffers that the affect was this; the crystal same process that the affect was this; the crystal same property of the property of th

an oval glass at a view, and turning the glass about to get at different aspects.

Mr. Cav's statements, Mr. Wace assures me, were extremely circumstantial, and entirely free from any of that contional quality that taints halloclustery impressions. But it must be reasonlowed that all the efforts of Mr. Wire to see with

from any of that envisional quality that taints halloclustry properations. But it must be emissistent that all the affects of Mr. Ware to see with any similar clarity in the faint opolecorous of the crystal were wholly unaccessful, try as he would. The difference in intensity of the impressions received by the two men was very great, and it is quite congernable that what was a view to Mr. Cave was

concernible that what was a view to Mr. Care was a mere blarred noticularly to Mr. Was to reverie. The view, as Mr. Care described it, was investigated to the control of t

recoling in an almost illumitable perspective and fading into the mists of the distance before they met. He was nearer the eastern set of chilis, on the occasion of his first vision the sun was rising over them, and black against the sunlight and pale against their shadow appeared a multitude of soaring forms that Mr. Cave regarded as birds. A vast range of buildings spread below him; be seemed to be looking down upon them; and, as they approached the Nurred and refracted alon of the nighten they became inflistinct. There were also trees curious in share, and in coloring, a does massy group and an exquisite grey, becode a wide and shining canal. And nonething great and brilliantly colored flew these pictures he saw only in flashes, his hands shook, his head moved, the vision came and went, and the greatest difficulty in finding the picture again

His next door vision, which came about a weak after the sirel, be interval about guided nothing but bunshiring plinapses and some useful experison, about his the view down the length of the valler. The vises was different but he had a carbon portunation, which his subsequent observations abundantly cardinose, that he was regarding this stress possibility on a different furtherior. The long fascilla of the great hairling, whose rood his had bould obey more before, was now receding in persistence of the preschairling, whose rood his had bould obey more before, was now receding in per-

looked down upon helien, was now receding in perpeters. It is consistent of nastrey properties and extraordinary hearth, and down the middle of the transe, at cortex intervals, and have been and which reflected the acting sun. The import of those which reflected the acting sun. The import of those small adopted fill on to core to Mr. Gave small sones time attay, as he was described in the same to Mr. Darratest and greated separation, and Dopand this was a wife greaty have no which certain theories.

causeway of pinkish stone; and beyond that, and

For example, passable with the fishest ellifs, wis a treated and althrowing expanse of wines. The left second full of opindrons of great bliefs, associative, and the second full of opindrons of great bliefs, associative, in a finish of the second of the second of the second gillstering with astallite tracery and fishest, association of the second of the second of the second fishes the finishest of the second of the second like the finishest of the second of the second of a wine, and a foot, or rather the upper part of to his own and an if on the other side of the crystal. The second of the secon

iffr. Gove was so startied and so impressed by the absolute reality of these cays, that be drew his bead hark from the crystal to look behind it. He had become so shorted in wething that he was quite surprised to find himself in the cod distincts of his manifestion, and decay, And, as he billisted short him, the glowing crystal faint, and west soil. Such were the first general impressions of Mr. Cays. The story is curticuly direct and chromstantial. From the outpet, when the valley starstantial.

stantial. From the cutes, when the valley star dishade momentury on this steem, he insightation must strategly difficult, and, as a learn to appear to appear to the point of a possion. He went should he hashness linkses and distraught, thinking only of the time when he hold be able to vitino to his watchness linkses and distraught, thinking only of the time when he hold be able to vitino to his watchoff the valley came the two conductors. He stress and entoticents of they offer, and the arrow scape of the crystal from asis, at I have already feld, at the conductor of the conductors of the crystal from asis, at I have already feld, at regalized a care worder a failure to even to court-

by all hope it is a solid quite propose for the other process. He was the process of the process

tin a little while they were able to survey the willer is nay direction they desired.

So, having eleaned the way, we may give a brief or account of this visionary word within the crystallar. The things were in all eases seen by Mr. Cave, and this method of working was invariably to watch the crystal and report what he saw, while Mr. Wase (who as a spices existent had leaned the trick of

(who as a series extens too service the trac or writing in the dark) wrote a brief note of his report. When the crystal faded, it was put into its how in the proper position and the electric light turned on. Mr. When a tived questions, and suc-

THE CRYSTAL EGG created observations to clear un difficult points. Noth-

ing, indeed, could have been less viscenary and more The attention of Mr. Cave had been speedily directed to the bird-like creatures he had seen so His first impression was soon corrected, and he considered for a time that they might represent a diarnal species of but. Then he thought, grotesquely enough, that they might be obscube. Their heads were round, and spriously human, and it was the eyes of one of them that had so startled him on his accord observation. They had broad, allvery wings, not feathered, but glistening almost as brilliantly

an a new-killed fish and with the same subtle play of color, and these wings were not built on the plan of bird-wing or hat, Mr. Wace learned, but apported by curved ribs radiating from the body. (A sort of butterfly wing with curved ribs seems best to express their appearance.) The bedy was small, het fitted with two bunches of probensile organs, like long tentodes, immediately under the mouth. Incredible as it appeared to Mr. Wace, the personalism at last hereme irresistible, that it was these creatures who owned the great quasi-human broad valley so splendid. And Mr. Cave perceived that the buildings, with other peculiarities, had no opened freely, gave the creatures ogress and entrance. They would alight upon their tentacles, fold into the interior. But among them was a multitude and moths and flying beetles, and across the greenaward brilliantly-colored gigantic ground-beetles granted helly to and fro. Moreover, on the cause-

ways and terraces, large-beaded creatures similar to the greater winged files, but wingless, were visible, become busily upon their hand-like targle of tentacles. Afterior has already been made to the clittering chiects upon masts that stood upon the terrace of the nearer building. It dayred upon Mr. Cove. after regarding one of these masts very feedly on one perticularly vivid day, that the glittering object

there were a created exactly like that into which be peered. And a still more careful scrutiny convinced him that each must in a vista of nearly twenty carried a similar object. Genasionally one of the large flying creatures would flutter up to one, and, felding its wings and

coiling a number of its tentacles about the mast, times for as long as fifteen minutes. And a series of observations, made at the suggestion of Mr. Were convinced both watchers that, as far as this visionery world was concerned, the crystal into which they neered actually atood at the summit of the endmost must on the terrace, and that on one occasion at least one of these inhabitants of this

other world had looked into Mr. Cave's face while he was making these observations So much for the essential facts of this very singular story. Unless we dismiss it all as the ingenious fabrication of Mr. Wace, we have to believe one of two things; either that Mr. Cave's crystal was in two worlds at open, and that, while it was carried about in one, it remained stationary in the

other, which seems altogether abourd; or else that it had some peculiar relation of sympathy with another and exactly similar crystal in this other world, so that what was seen in the interior of the one in this world was, under suitable conditions, visible to an observer in the corresponding crystal deed, we do not know of any way in which two greatals could so come on reproved, but powedows we altorether impossible. This view of the crystals as es rapport was the supposition that occurred to Mr. Wace, and to me at least it seems extremely plaus-

And where was this other world? On this, also, the alert intelligence of Mr. Wace speedily threw light. After sunset, the sky darkaned rapidly-there was a very brief twilight interval indeed-and the stars above out. Thay were recognizably the same as those we see, arranged in the same constellations. Mr. Cave recognized the Bear, the Pleiades, Aldabaran, and Strius; so that the other world must be somewhere in the solar system, and, at the utmost only a few hundreds of millions of miles from our own. Following up this clue, Mr. Wace learned that the midnight sky was a darker blue own than our midwinter sky, and that the oun seemed a little amalter, And there seem two amail record. - "like our moon but amaller, and quite differently marked"clearly visible as one regarded it. These moons were never high in the sky, but vanished as they rose; that is, every time they revolved they were activated because they were so near their primary planet And all this answers quits completely, although Mr. Cave did not know it, to what must be the condi-

tion of things on Mars. Indeed, it seems an exceedingly plausible con-And, if that be the case, then the evening star that was neither more nor less than our own familiar earth. For a time the Martians wif they more Martians.

-do not seem to have known of Mr. Cave's inspection. Once or twice one would come to neer, and on away more shortly to some other must be though the vision was unastisfactory. During this time Mr. Cave was able to watch the proceedings of these winged people without being disturted by their at tentions, and, although his report is necessarily vague and fragmentary, it is nevertheless very sug-

seative. Imagine the impression of humanity a Martisa charver would get who, after a difficult process of preparation and with considerable fatigue to the eyes, was able to peer at London from the steeple of St. Martin's Church for stratches, at longest, of four mirgtes at a time. Mr. Cave was same as the Martians who hopped about the causewors and terraces, and if the latter could not on wines at will. We served times are certain change bineds, dimiy apprentive of aper, white and pertially

translaters, feeding among cartain of the lichenous trees, and once some of these fled before one of the hopping, round-headed Martham. The latter eaught one in its tentacles, and then the picture faded suddenly and left Mr. Core most tantalizingly Mr. Cave thought at first was some gigantic insect, appeared advancing along the cassaway baside the nearer Mr. Cave perceived that it was a mechanism of shining metals and of extraordinary complexity. And when he looked again, it had disappeared, After a time Mr. Wace aspired to attract the attention of the Martisas, and the next time that the strange eyes of one of them supeared close to the crystal Mr. Cave cried out and surang away, and gesticulate in a manner suggestive of signalling.

But when at host Mr. Cave examined the ervetal again the Martian had departed These observations had progressed thus far in early November, and then Mr. Cave, feeling that the suspicions of his family about the crystal were silayed, began to take it to and fro with him in

order that, as occusion arose in the daytime or night, he might comfeet himself with what was In December Mr. Wace's work in connection with a forthcoming examination became heavy, the sittings were reluctantly suspended for a week, and -he saw nothing of Cave. He than grew saxious to recume these investigations, and, the stress of before a bird fancier's window, and then another at

He rapped and the door was opened by the stepson in black. He at once called Mrs. Cave, who was Mr. Wace could not but observe, in cheap but ample widow's woods of the most imposing asttern. With-Cave was doed and already buried. She was in tears, and her voice was a little thick. She had just returned from Highgats. Her mind seemed cornwied with her own prospects and the honorable details of learn the particulars of Mr. Cave's death. He had the day after his last visit to Mr. Waos, and the crystal had been clasped in his stone-cold hands. His face was smaller, said Mrs. Care, and the value

cloth from the minerals lay on the floor at his feet. was found. This came as a great shock to Wace, and he began to represen himself hitterly for having neglected the plain asymptoms of the old man's all-health. But his shief thought was of the crestal. He apha know Mrs. Cove's peculiarities. He was dumb-

founded to learn that it was sold. Mrs. Cave's first impulse, directly Cave's body had been taken upstairs, had been to write to the med clargyman who had offered five pounds for a violent hunt in which her daughter joined her, they were convinced of the loss of his address. As they were without the means required to mourn and hary Cave in the elaborate style the dignity of an old Seven Dials inhabitant demands, they had anland Street. He had very kindly taken over a porhis own and the crystal egg was included in one of the lets. Mr. Wace, after a few suitable conscistory hurried at once to Great Poetland Street. But there to a tall, dark man in gray. And there the material facts in this egrious, and to me at least very appr-Mr. Wace remained in the shop, trying the dealer's exasperation. And at last, realizing abruptly that vanished like a vision of the night, he returned to his own roome, a little actonished to find the notes be had made still tangible and visible upon his an-

His amorance and disappointment were naturally tual) upon the Great Portland Street dealer, and be resorted to advertisements in such periodicals as collector. He also wrote letters to The Deals suspecting a book, saked him to reconsider his action before they printed, and he was advised that such a stronge story, unfortunately so have of supporting evidence, might imperil his reputation as an investigator. Moreover, the calls of his proper work were urgent. So that after a month or so, save for and from that day to this it remains unflicovered. Occasionally, however, he tells me, and I can culte

dons his more urgent occupation and resumes the

Whether or not it will remain last for ever, with the material and origin of it, are things equally chaner is a collector, one would have expected the elergyman and "Oricotal"-no other than the Rev. James Parker and the young Prince of Rosso-Kuni in Jaw. I am obliged to them for certain par-ticulars. The object of the Prince was simply enviesity-and extravegence. He was so eager to buy, because Core was so oddly reluctant to sell. It is just possible that the boyer in the second customer. was simply a casual purchaser and not a collector at present recovert he within a relie of my decorating a drawing room or serving as a paper-weight-its remarkable functions all unknown. Indeed it is thrown this narretive into a form that will give it a chance of being read by the ordinary consumer of Setion. My own ideas in the matter are repotically identi-

on the mast in Mars and the crystal see of Mr. inexplicable, way on rapport, and we both believed -possibly at some remote data-sent hither from that pleast, in order to give the Martians a ness ceystale in the other mosts are also on our globs. No theory of hallocination suffices for the facts.

"Doubtless-I am very uneasy on the point. We have certainly not enough water to last us five

"Re quite coay on that matter," continued my in fact, far more than we shall wont,"

"When we once get through this grust of lava. How can you expect arrange to force their way through these solid stone walk?" "But what is there to prove that this concrete

earth? I don't think we have as yet done much in "What puts that into your bead, my boy?" asked

"Wall it concern to see that if we had descended it rather hotter than we have."

what does the thermometer say? "Rearrely 15 degrees by Regarner, which is only "Well, and what conclusion does that bring you

to?" inquired the Professor. "The deduction I draw from this is very simple. sugmentation of the temperature of the interior of

the earth is 1 degree for every bunfred feet. But certain local courses may considerably modify this

figure. The difference evidently depends on the con-

"Nothing easier," said I, pulling out my note-book and peacil. "Nine times one hundred and twentyfore feet, make a depth of sieven hundred and twenty-

five feet." "Archimeden could not have spoken more geo-

"Well, according to my observations, we are at

"Either my calculation is correct, or there is no The calculations of the Professor were perfectly cornect. We were already six thousand feet deeper

over been before. The lowest known depth to which man had hitherto penetrated was in the mines of The termerature which should have been eightyone, was in this piace only fifteen. This was a

matter for serious consideration. (To be continued in our June issue)

To Our Readers

OME of our residers seem to have obtained the erroneous idea that AMAZING STORIES publishes only repeated, that is, more a great number of new manuscripts on before. This is not the case. We have a great number of new manuscripts on hand at the present time, and are buying quite a good many more. Today, more than at any other time, is the day of Scientifiction. Authors, great and

small, are taking more and more to this type of fiction, and we are getting an excellent supply of stories right along. Our only problem at the present time is to find room enough to publish all the good ones. If you or your friends know how to write a scientifiction story, the editors will be

only too glod to look them over. At the present time, only rather short stories are required, as we are well stocked up for some time to come with serials and long storics. II, on the other hand, you have heard of a good scientifiction entry that may have appeared in print at some time or other, and which you think should be published in AMAZING STORIES, we shall be grateful to hear from you. We have an index of most scientific station that have ever been published, but of course we can not know

The INFINITE VISION By Charles C. Winn



able at my hands and I will hilld you a telescope

TELL you, gentlemen, this is a pretty nass of affairs. Here all the other branches of science are oven to practi-Autroparry as nearly stropped because

of one thing-that we have apparently reached the limit of development of the telescope, as evidenced Can't any of you suggest anything!" and the trial of the giant forty feet mercury reductor tele-

seems which had recently been completed in the orast Malton Observatory altrated blob un among

Politicathy the results had been more too satis-

corpressions of the company. Helton, the chairman, 'Peasibly see mercury reflector might be satis-

That individual cave a sport of disgust, and his wire red har fairly bristled, so he coat out his "What, that d- thing! Why that thing is per-

H You can't entirely eliminate vitration in did in this case. Yes, I'd like to see you do sny-

An uneasy afferce fala man was present hot of his constitution.

tiently listening to the disasterse. Glean Pressarthy

predefent in Astronomy, but to an even greater degree in Physica and Chemistry. He had disclosed to been there to bireasif biding the day when their Finally when the tenseness of the silence was

the building again. This was there; Coron, the American chemist: Flam-

ptories of the world, and others. In the center of the room to which ther were

shly, to a single spot in the heavens. Now it was need into a roaderous sensionial mounting as deli-

shirong curface no longer needed rapid rotation to

COLD meen was rising over the snow-capped

Alebest ceaks stood the gagantic Holton On-

On the steps of the hurs omerste building two

abort and red-haired, with bright blue eyes that spanned belliggrently behind thick horn-rimmed resolvable. His companies tell and deek had about him an indefinable atmosphere of quiet force and

For ten years those mon had been engaged in ture for the reception of the delicate apparatus

which his companies was laboring to perfect in a Bix months ago he had arrived with it. From

ing it. Only that day had they made the first ad-

function it was to perform. For acces successful the two stood, alleredy regardhones. Then the full dark wan rotains his even.

Two harry later they emerged, their faces trans-

figured with the light of great revolution. What they now that night only ten ethem have neer-AT THE opposite extremes of the warmingtons of

the four greatest observ-

But now it was strangely altered. No longer was it

metal was now set as rigid as steel. The master The party gazed in silence and wonder for a

flight of stairs to a large room under the center of It was a marveless room, filled with an intricate was busked series after series of vacuum tubes.

recented upon long renels of sharing bakelite. Another wall was completely hidden by a lyage switchheard, studded with a seemingly endless array of awitches, control knobs, rhecotate and levers, affine acrees about aix feet routers. Leoking down upon it, the men could see the reflection of a strungs.

piece of apparatus pointing directly down upon it, from the outling above. For some moments the party stood gowing in

THE TELESCOPE

ENTLEMEN," he said, "here before you Gies the results of ten years of intensive labor by Mr. Holton and myself—the sufare to-night. However, I do not expect you to be

Then walking over to the board, he threw one of the awatches. Instantly the low hum of an electric

"The power comes from a good-sized hydro-electric plant down on the other side of the mountain," smiling gently, "Holton was an invalgable factor in the contraction of the mounting for the reflector Then, turning to the hourd again, he moved a lever which brought the aperture of the huge done

around to the east. Another awitch, and upon the a hope X-ray tube evenue into life, unseen to the watchers below. Then, guiled by the marter hand,

Parworthy speke sgain. "Gestlemen, I now have the reflector in the room below trained upon the He threw snother switch, A low burn came from shove, which speedily grew in pitch to a riorcing white which even because broudthis to the histories

He turned a control knob, and two of the vacuum tubes lighted up. Simultaneously a stronge beam of luminescence shot downward from the apparatus Garing down upon the serven the men saw an

object that riveted their immediate attention. There, as though fosting upon the silvery douths. Rapturously the group looked upon it. Farwarthy, with a dexternin twist of his wrist.

first more fixed away, and was replaced by one. filling the entire screen. Then, as halb after both finded in the across showed only partions of the golden surface, and the image grow more and more detailed. New only one great mognitum was visible to the watchers; now only a portion of that mountain; now only a half decen rocks upon als aurface. and finally the surface of one rock. Then the acception with an admoration to his companions, threw in a switch which brought the

anapped two more of the tubes into the circuit. The

last bank of tubes almultaneously into light. The former places faded away, and in its place appeared a whiring most of trunsparent spheres. visible only by the onelescent light reflected from their surfaces.

MOON'S MOLECULES

BNYLEMEN." said Payworthy, his usu-

ally quiet veloe trembling alightly with cales of one of the rooks on the surface of our you for the money, which you so kindly provided." A subdued murmur of approhation was the only renty he required from the enchanted group of acientists, as they rapturously watched the fifting

For some recovering their stood atmost with the wonder of it. Then Faxworthy abruptly pulled open the switches, and the image faded from the arrest "Perhans was would like a brust sanianation of the syoning," he suggested, at the same time glano-

isg at his worten There was a general redding of boods in assent and he begran. "As you probably know, I have

heen engaged in research work in Physics and time I have made some discoveries on these subthis present undertaking. Up to this time I have revealed their nature to no one except Holton, who And he disappeared up a ladder, leading to a room In a recognit he returned, heldler something tightly classed in his bond. Opening it he disclosed a great flat tube, filled with a reddish viseld lightly

in the extremition of which were sailed several fire "This tube, gentlemen," exploited the extender "In the very heart of the appendix you see shout tains a quantity of a previously unknown element.

azaletante twenty years to irolate the amount of Lucism you see in the tube. With apportial fact is that this element has the same properties as selenium, only in a million times

an absolute non-conductor of electricity, but let the tiniest ray of light strike it—though that my came arross the universe—the substance immediately bearross the universe—the audstance immediately be-comes proportionately conductive. Within the lightflector comes to a focus upon this tube. I shall not the discovery of this element further than to tell DESCRIPTING MARK THEN drawing his wetch from his pocket, he

sees, the planet Mara will have reached its elescat possible approach to the Earth. Then we shall learn her secret. If you will parden me a mosound of ductant thunder became plainly andthle in

hours to explain antisferentialy. Due to the lack

"One of the summer thunder storms common arrong these magnitains is coming in " he emissined amply. "I will adjust the reflector now, lest it give "But Monatour it will small the observation! Even when it recodes, see air currents will be

atroctons!" orled Flambean in the first words he had Paxworthy made no verbal ronly, but metioned the structure. He pointed his flarer to the more which was being slowly changed. Pollowing his

motion, the others good in the same direction. What they saw was a shostly extinder of faint luminescence issuing from the small tower on the roof, and reaching outward into space as far as PTho disselling was 9 briefly employed their

guide. "The other waves of the fortisth octave which have the property of expelling all matter from their path. The range of this ray in the atmosphere is about air hundred miles, and as long as the telescope aligns in its path, it effectually

The wondering oliving that followed was broken only by a stifled "Mon Disu!" from Flambeau. That seemed almost incredible to the group of dis-

The silence was not broken, even as their guide led them back to the control room. Swiftly be brought the column telescome to the saroth, where cally the prescrible bond of light on the done swang Again the first two vocuum tubes flashed into aron the screen the image of a great red star, mag-

constituted network of delicate lines could be dis-Two at a time, the varuum tubes were switched nto the efreunt, and ever the image increased in size and detail. Soon it covered the entire screen

bands two fact wide, intersected in the middle of the screen, in the form of a large circular anot. The center of this spot was thickly strewn with small MARS AT 10,000 PRITE THEN without warning, Faxworthy anapoed on all but two of the remaining tubes in the

And slowly the delicate lines had grown in breadth, until only two of them, now broad other

bank. Instantly the masse on the acreen faded into observity, and in its place appeared a wondrous some. There, so though from a ten thousand foot bird's-eye view, stretched a great city They were looking down upon great buildings a

conservery airchine darted grazefully through the The last two bulbs flashed into life, and the view came to the apparent distance of fifty foct. The New is a raiment resembling that in which Cassar's on also, all of electors form and frature, robed in

The last two tabes again faded into devirons, and

With an almost impropertible recomment of his hand upon a lever, he brought the landscape flushings across the screen in a gioricus pengrama.

planet from pole to pole, the storm that had been mornton. Lightnian flashed and thurder there the observatory, but so engrowed were they in the interpretion by the affect, ghostly ray without that miles, they viewed the surface of the pienet from

summit of a great mountain carped with an engry mous black blotch aroust acress their vision. With skillful band, Faxworthy brought the moure back to the center of the arresp. The black blooch was a large building completely covering the top of the mountain, and towering five hundred feet into the air-an alread asset region of the building stance! Again the last tun helbs fleahed into light engrment concern mirror two hundred feet in

sare even are ever watching to from areas and they have been doing so for countless ages."

The MAN from the ATOM By G. Peyton Wertenbaker

(Sequel)



What Went Before

ROFESSOR MARTYN ums on insynter of nish in size, and Kirby agrees—with foreboding this little marking, school is attached with strang.

etricken and decides to meet the Caton't button Then he suddenly finds howeelf coming up out of Amusted, he falls right off to sleep. When he monken Amount shough. He more and former amount for some excessed to enable him to no back to earth and toothstrongs planet with storage inhabitorie or for of sourced in intellect that he feels like a among graces them. He does not understand their less

THE MAN FROM THE ATOM

NEVER hoped—never dreamed, when I abould ever see the earth agent. Who all the knowledge of insuperable fate

which had come to me? Who could home to over--or remething year like it. And it is a story a than the stary of my lourney. And like that it is

When I but wrote, I was living in a state of awfel enisacence upon a planet of the star Debitor whether it is even existent now for us. Perhane

box again? I leave to morrow-but will also be I saw little enough of that world, and what little I did one I shall not attorge to describe here, for it Martyn's aid, for a scientific maraone. But when I present the bottom bottom regio, and the stars. horas to grow large, the planets to become visible so they careled in their paths, I had no desire

no throught for the consequences, I came close to being there in space with a world, a laying world.

down over it as you would and I espid imagine to

by I did not nurrounder to that impulse. But I buseled a great hystorical lough, and it must have heen like the langhter of a god reverberating

All this time the planet was growing blazer. It cinating acrohatic antica, to propel myself farenough sway to place my feet almost upon it. Still enough away to place my seet aimset upon it. Still it grow-or should I drop this playing with appearaures, and may that I shrank? In any case, its height in diameter. Then I let my feet push through

the first time since my departure that my own size "gravity" switch, rather undecided what would happen, and caring very little, I suppose. Nothing did happen. The skuds came closer and closer toward my face, mounting up over my body and growing each

moment more billowy and more illimitable. In a little while they had enveloped my face, and a few

been too sleepy to be interested. Instead, I looked down upon long, rolling plains of golden grain. see. The ocean came to within a few inches of my light very seldon ponetrated through the clouds

in all its organit splender, but the world was no There seemed to be a clear, diffused, blaich sort of hight over the face of the planet. I grew minuter, coming observable closer to the

upon. In a little whole alse. Once I turned it on

little by little with in-

fights. There was nothing shout me by which I could paper my desired metal I had about Without any thought for nonsible differences in the atmospheres of this world customed, I feverishly pailed off my globules believe and my said. I was erested with a great breath of bething in its freeh purity. Then, with a sigh, I

need down into the soft erain and Watching the tail stalks rippling above me in the wind, I fell When I swoke, it was dark. There were no stars to he seen and no moon, but there was a faint radiance, a phoenhormousence, upon the crain in which I lay. I did not rise for a long while, for I was therefore hardenale of the futelity of my life with my world gone, of the new life I should have to build up here, learning exceptions all over again

as though I were a halv. After a while knowing the madness such thoughts as these might lead me to, I tried to distribut them, and I assed up. I was smaned at first to discover the grain about a foot it had not grown a yard during the night? I soon realized, however, that it was I who had grown a

with increasing slowness. I now removed the tiny instrument, which I had kept on after taking off the suit, last it should come to harm. I was restaled to know how I might reach civiliza-

tion, if there was civilization. But, remembering the see, I set off in the direction I thought it lay, carrying the suit and the machine, both extraordinarily byhi. I walked for a large part of the night. I did not realize just how far the ocean might inches from my huge foot. I was fairly certain after walking many miles that I must have taken the season direction. But we A little while before the dawn I beard the faint sound of its brookers. When I reached the beach, I once more perceived

the light of the city, assuming that it was a city, ing atructures thomselves, but an intense golden radiance amond dealf over the sky, as though it might really have been the moon rising. I walked along the beach until down, and then

directly opposite the City. I should imagine it chites arrested. They came out of the cast, from the direction of the City, Bring very low, They flew together, several burdeed of them I should imagine, until they reached a point on the obsesprobably ten miles below ms. Thus they seemed to disperse, some into the country, a few at betarvals

bayond my imagination. I bogen to wave my arms A few minutes later, after passing purhaps a mile beyond me, the plane turned and glided along

the beach until it stormed a hundred rards or sp amon It was a small waching of a wast curious and delicate design, but it did not differ very redically from those I had seen on the earth. A man leaped out and came toward me. He, too. was very like world, but shout a foot taller, and delicate, his build very slight but quite oraceful

He was unclothed except for a helt of metal and several metal ornaments upon his arms and lear. He carried a small, stratght instrument of wetal ubin me. I raited my arms, and cried "Water" or comething ornally abourd, which, naturally, he could not understand. He did not trouble to reply, realising. I suppose, that our languages were different Instead he verticed ma to approach, and, backing place. I need algorithed to enter it. There was no cock-pit, no enchaure. It consisted only of a platform, same five feet wide and ten feet long, with of severe dauga was affixed to the forward end, be-I mounted the platform and set down at his command, in one corner, Still holding the tiny inmy wrists and one sokie to a couple of metal cuffs, syldently for that purpose, upon the real. He flang

away from me, he allowed me to come up to the

the suff, after a contemptuous examination, into the corner beards him. I grinned at him several times during these operations, in order to show stared at me with an expressionless face and turned was in his eyes, I fancoud it was dispust.

A moment later he rose swiftly from the beach despondent revertes as we flew over the water with sometime southness. He went have after some along to the other planus by wireless, for a short while later I new them all falling in behind, far back

they might all have been courthing for me. I had forgotten how convicuous my giant body would one absured to alcorro it. At the risk of emitting details which the reader

deshine in the smilleht, mile after mile, extending far out over the borison; buildings of immerce bright, standing each many hundreds of yards and kept superently at a uniform heat, while I suspect that in some war the clouds above were arti-We entered through great gates in the glass dome, and tolored a throng of other planes, meetly very small ergs, and in a few minutes we had landed on the roof of a building your the limits of the

A number of the tall men then gathered about us. They were all clean shaven and they were negativeDr without have. They had an air of age and wisdom, sithough their faces, like ther of the fiver, were smooth, delicate, and impensive. I was released, still under the scrutiny of the little weapon, and conversed down, through elevators and moving passages, to a cell of white metal containlay a low bed, some small chairs, a table, and other more necessarion. Food was not before me, and

then I was left sleer. I never left that cell thereofter until the memory of my final departure from The days I spent in there were a long and examinations. On the day that I arrived after I

had eaten my meal, two of the men to whose care I was committed came with a guard to inspect me. They said nothing during the whole time they were there I was motioned to contain reveald. Half inavailabourby I haven to talk and they needed as though they understood-I cannot say how; I never THE MAN FROM THE ATOM

143

Issued in what fishing they interpreted my speech.

"You—are—Kirby!" Her accent—how easily it to do not be interpreted my speech. "You—are—Kirby!" Her accent—how easily it is to do not be interpreted and it is not become a second of the characteristic manner.

shout my world. At interrule they modded I suppose to assure me that they were listening. After awhile I was given writing materials. I wrote as appeal to them to emain their world to me, no upon it. But always they only modded at me, and at last they departed, lating with them the world I had written. A latic while later, soveral guarde were sent to my cell. They handled me as though I

of water, cutting my hard, thaving my haard. When I was appearably close crosspl for their seasibilities. I was left idens, again. This went on for days and days. Senottimes the same two man who had first Interviewed ime camagain. Secontimes there were other vinitors. Every day I was forced to autemat to the altendance of the guards, this any caped heast. I was never update.

guards, libs any caped basil. I was never update to All day incry, when I was about, I would washer rectionally about, thinking over and over again the obj, termits thought of what I had seen and hat think, had they not acceled finally to vary request think, had they not acceled finally to vary request for writing materials—the only sign they over gave as that I was understoot. I rulgirl have given way to same numbers of the received the same parameter than, had

But I was at feet a little consider with the writing materials. Thereafter I was able to posed hower and hours setting obwar the details of my advanture, recording all my broughts and details of my advanture, recording all my broughts and details of my advanture, in the control of the details of the first worder of the alphabet, of this thing we call writing. By proriect used all my beaut into words, by expressing the things that hour as apprenticely the control of t

log and egic.
But this, thank God, did not go on forever. For one day Virlas came. She asid afterward that it had keen only convolvily which had here on any colf. Beerptody in the City, everyfody is that mostly, some bear the own wilding cutton for Whitehman seems to have been wilding cutton for Whitehman which was the control of the

premary only as long as it retained its great lintallictual power. Viriabr's father, the King, was a physicist.

Yields cance in sints, with a guard of six recard an escort of six scientists. I will not say that I loved by at first sight. I was, (sized, arreads by her great beauty and the mobility of her features, on fine a centrant with the impossibility of the men. She was not very loft either, just about my own height, and the most greated women I

to me gries meanly and the framing the property of the scan. Each see not very del either, but the scan like who not very del either, but the scan have one way the scan and the scan have ever become. She rainful at an will a norm-what alord interest, and then—then the spaled 'The first sounds of human speech I had board out the planet. And she speles Registrib Outly a few herbon words, it is true. But I found afterward that had bear of the first scan and the had bear of the scan and the scan and the had bear of the scan and the scan

"Surfay? Yes. yes, I am Kirky, Yes. And she middle again, and I milled, unaware of the accordial gissum on the eyes of the men. She milled was brightly when has now my own grin. Indeed, I farmy she was about to heigh hingh to come again. Fee-day you see?—I did not hearn for a long time that only weener haughed and played, and amazed themselves with artistic pursuits of

nothing, just stare at her open-mouthed, amened

delighted. Then I managed to stutter some foolish

cam again, red—only you sol—— the two parts we cam again, red—only you sol—— the two parts will be a compared to the parts of the parts

that my cell was ten theomet times as here and coil and hard as it had been before. The not time also came along, except for a single pared. She had appealed to be fasher, the King, telling him how harmines I was and how different from the new of this planet, and that i should not be judged by their attackers. She had persuaded has, to the contain along, with weights materiank under home the contained and the contained and within took the piece of and which took the piece of books, the had decided to learn my designant, reserving that here was in-

which is deemed or incashest in us, something resibled, purhaps, to the waper bling we call means to belonghy.

Oh, but I spent endines days of wonder and ancharacteristic belong the special properties of the content there with Yatahi. Never once was I pursuitted to have my self, but I was content own for it seemed that she invested in the beauty of the universite will hee, the sensitions, the spid and the great of the folia, the tibs of the sea-verything. Ged known her it ever failed to readine with

usefl I was grow, and il was too late.
It was not long hades we could converse tegether,
it was not long hades we could converse tegether,
as hough, apparently, the minds of wearast were as
well as though, apparently, the minds of wearast were as
guite airtiply, that women, had sower solving three
guite airtiply, that women, had sower solving three
guite airtiply, that women, had sower solving three
that grees on the source of years hades. Weeners, it
executed, were kept for the sort of reliablestian lidears
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way of those who tend them, watch over them, cars for them.

But I had to confess to her that my own intellect probably was not so advanced as here. And it is this it same that make our constraints in the AMAZING STORIES

Hightful, Women to those selectation were merely as course of hustery remainer the store. That is the hollenged field. Except for mere cases, there was no hollenged select. Except for mere cases, there was no hollenge for the store of the

So we were daily together for a long time. Each meanest of our ecoversation was wonderful to us both, for it revealed to each of us the excite life of a planet unknown to us. I remember very little of what she told me about that planet—it seems that I can remember nothing but Vinde herself, her low

I can review to time par white strend, are you wise with its distillations ascent, her eyes, her lair-everything that a lower always remembers. So that Bout had not foregotion my briging for the content of the conten

hepolane. She seemed to grow more thoughtful as T specks, but it the time I did not think it was more than an endeavour to form mental pictures of the things I related. One day, however, when we had taked for a long time of the sarth, a silence followed which lasted for many minutes. At last she said;

one said!
"If you were able, you would return to your earth?" I raised my arms despairingly.
"God, yes?" I oried, "but the desire is all I have.
No man can compar time." She was very thought-

ful for a moment.

"It has been done," she replied after a while,

"But Vinda, one cannot re-capture what is gone

"Ne," the agreed, "but one can do almost that.
I do not know—but my uncle has a occret—"
"A secret What, Whata! Tell me what?"
"I must tell you first of a theory. . ." Bhe pendered white I waited breathiessly, even forgeting her bousty as I watch her face for some

"You have updam," ahe said, "of a roan called Essistion on your earth, and of ether muss who believe that time is a fourth dimeasion and that it is curved. Home of them, you say, believe that spoce is so curved that, if one goes sufficiently fine, he will return to the point from which he sharted, will return to the point from which he sharted, the curvalure of time. And our evidence has taught that time species in circles. It couldes. These saw

"You mean-y"
"That a time comes when your world or this
world, after having Eved and died, will live again

Which the same better, the same defiliations the Yors. For they tooks the three is a destituin the life of all thirar, that the growth of the universe follows definite courses in which every fost, every incident, is incaparably were into a fecture which embescule the whole and of saturist inevitable because it grows out of natural fecces. The accret of all this we wanten have norse learned it is the study of the releasing, but the which hetery of the universe in Figlicia Proceediation, and "That is what they say," I leaped up, and began to walk wildly about. To return! To see Martyu again, and the rest! And then a thought came to me. I primed betterly.

ms. I grimmal betterly.

"But that will be millions of years away," I said,
"and I shall be dead," She looked at me for a long
while, and then she answered:
"No, Kirby. You passed millions of years in a
few instant during your great tourney. Do you

not see that you can grow large again and that the millions of years will flash by as swiftly?" "By Jove—yus!" I shouted. "But you would be leaving us very seen?" she said. "If that is trea?" I orled. "Why. I would leave

"If that is true?" I cried, "Why, I would keep tomerrors?"
She turned sway, and in a ministi attierred, "Not to-morrow, perhaps, but in a few weeks." And, suddenly, she werd sway.
I did not along that night with the wonder of this traity unbelowable thang. All night, all the

I did not along that night with the worder of this trady unbelievable thoug. All night, all the next morelan, I pased controlly about my roun, watting for her return. When she did arrive, it begand her for more details. "What can I tail you," he said, "who know so ittle myself? I have spoken with my uncle. He could not tail the myself that I understood. There is

some great source underlying it, some great explanation, which is always just in few depts happen may great. I soom to use for an instant which it that ever and show the cycles of time, in a pracparately progression which makes the civilizations of the universe shows just at title farther advanced in the contract of the contract of the conparately in the contract of the conline described then as a cort of dish dimension in time, comparable in said, to the path of the surwhich cerries the planets always just a little forther of traces, and the contract of the c

he meansy confusing."

The drive words, if I returned to the earth, if the drive words and find it a little further edvanced than when the drive t

his erder to find your friend, Martys, it would be seened any to go back to an earlier year which we cannot have which you would, therefore, have to estimate yourself."

"Dut," I said, "there are things it is difficult to the understand. In it true, for instance, that there will

iny "Dat," I said, "there are things it is difficult to the understand. In it true, for instance, that there will see to be author incarnation of my body which will leave to a the earth at the same time I am returning?"

"It would seem as. And that incarnation would return in the cycle following your return."

"How complicated it all is?"
"That is only because we are not able to understand it as the referring to the They speak, for instance, of the dimension of size. It seems that there is a direction, which we cannot quite grasp man-

THE MAN FROM THE ATOM 145 grasp time as a direct to spend in mr various sizes, before I could return

tally any more than we can grasp time as a direction, which cottends from the annell to the great. That is to vary, when you grow you are really morning in a now direction which is linked, how I do not entire the state of time. The contemporaries with the dimension of time. The off which I is a part, an enter, as a difference in space through another direction, as a difference on the contemporaries of the contempor

Set informer sum of old universe.

"Set really, that is too obsoure for me,"

"Set really, that is too obsoure for me,"

"Set me, too," and acknowledered. "But our

scientists universiteate." We were asked for a long

when the contraction of the contraction of

own, I pendaring these was conceptions that were beyond my grass. I twice the allence first: "In all theories of time as a dimensifies, this peint has always mixed itself in any mixed. If I were to return during some critis in history and forredd the mixtabe the would be such, could this mixtable be restrict, changing the whole course of hislength."

head of the progress which divilitation makes from cycle to cycle, I shink. You must remember that all three things are involvable. If it were year destiny to return at some calter point in year world's history, It would be the result of ratural laws, and any changes you might effect in history would also be involvable. April we were affect.

At last I roused may self from my revortes.

"All this," I said, "sector very dirt and unreal
to me yet. I suppose that is natural. But we must
begin to set. Good your scientists help me is the
precises of finding the point is history where my
world will be again as I left it?" Bhe beked at me
very steading for a memorat.

wary steadily for a mecount.

"You are sure you wosh to go!" she said. I smiled.
"I carnot imagine withing not to," I said.
Oh, feel that I was! If I had only known how much I should some day with to return to her.

"Then," she answered, averting her syra, "I think I can help you. You kept records of the time you spent is your journey?" "As well as I could." I replied.

"As well as I count," I report.

Can you draw a disgram of the stars as they beloed from your earth when you left?"

I are sure of it." I assured her.

"Then I think it can be done." And, for the rest of think day I sat with her, drawing my maps of the sky from memory, settling down extracts from my take of the fourney. When the left she had all the information which side

Again I shall you reser the next few works with a few works. Design that there are some each day with most of the progress of her efforts. Once we will be the some of the progress of the efforts. Once we had persuaded her much to make the circulatives for me is its associate of relaxitive twint as the progress of these mental. Apparently the man, by squring the inexts of time I had been challed allowed of the mental. Apparently the standard is small as the progress of all the share in our universe, past, present, or of all the share in our universe, past, present, or of my works, he could here figure 1 at the share in

should have to become and the time I should have

rement, each did taking upon the record at the cerrent point.

The precise point when it must stop was recorded on the wariou dide, and the preside point when it must stop was proposed and thritist again well little must also may growth and thritist again well little recorded to the proposed of the proposed was also as a proposed of two guards was given ma, and Vindo cause with new very impossive, vary also. We went from my self up through the against the proposed of the proposed was a proposed on the proposed was a proposed with the proposed was a propos

again to the world in its next cycle, unimagnable millions of eons in the future.

When the day came on which all these salenta-

tions were finished, Vinda brought me my aust,

in the universe I was leaving, regardless of the various sizes I might assume, It had been connected

by those marvelleus men in some feeblest to the

machine itself, so that the growth of the machine

weath record a corresponding swiftness in the passage of time. One dual recorded vasas, When the

mode worked a seriors swiftness of probition on

the dist, it coused, and the next inghest dist, in

thousands of years, continued the record alone, her-

subsed. In turn this dial essent to record, while

the millions of years were registered, and so on-

We passed out threagh the City preclain as we had come in, recorded the sex and headed across. It toward the founted part where I had first appeared, Virids and I stored alone in the stern of the platform, lecking out over the retreating water and the City.

"Down think" the said, "that you will be "the platform that the platform that

disappointed when you return? Will you not find it very irsule to take up a hum-drum life after all these exotic adventures?"
"No depth I chall? I answered, for, now that I was us my way lack, I could estimat many things."
"It there will be a covernmention of things."

ahip and other things. And, anyhow, it is my deciting." She sighad.
"Yea. . It is your destiny. Is thore, perhaps, scences when you love and who calls you hask to har?" I houshed lightly.

"By no means?" I said. "I am incourse. I have never fallen in love." For one lies, maid, "or perwithout knowing it. "You are very unfortunate," she said, "or perhape very fest-saids; it is hard to say."

hape very fortunate; it is hard to say,"
"Are you, then, in love?" I saked her. She tooked
out over the see, her face turned away,
"Yes," she replied simply.
"Then I wish you the greatest success," I said

formally. And—so you know?—I was suidenly a little pigued, without at all knowing why. It may be that more are more intellectual than woman, but it is certain that they are sometimes more torrible foots.

it is certain that they are constimes more torrible fools.

So we went rushing on through the air, cool, fragrant, quiet. How oan I ever have wished to AMAZING STORIES

We exze to the fields upon which I had landed. There I put on my sull with fewerath backs, as though afraid last it nest away under my hands. I say adjusted the machine and the chromeoster upon it with Vinda's sid, and then, isolated in a profound silence within my glass gibbs, I ofsed waiting for the bear sit which I must begin my journey. It seemed to me that endines hours passed while I

the hear at which I must begin my journey. It nomined to me that endines hours passed while I stood there in here importance, with the two carbons must be without my me. At the last quarter-bour, Visids anotherly termed and went behand the machine, where I could not see her. But I was too hastly watching the face of my serial-watch to see

in the flow years.

In this property case, a suited a Homeste main, and waved my hand at the two panels as I presend the top batton, while they green us one intelligence and survey to the many the property case the trigging electric flow hast threaty may write, a mornet lately flows constitute bady has well as the trigging electric flow hast threaty may write, a mornetal thirty flows constitutes had passed where, a mornetal thirty flows constitutes had passed writers, and the survey of t

my growth for a few minutes, but, manual, I keels down for company away from her to sackty, and I milliod, swu/ng may from her to sackty, and I milliod, swu/ng my men libe come hurs, clausay, refusions grain. Bhe eliffered and eassed her strangels. For a montrel she started at my with an extragels. For a montrel she started at my with an extragel, and the started she will be the control of the

Independent up through the Oreds, and Seed It.
It certainly is not accessary to detail up referrs,
for, in every respect, if was like the first journey.
For a long, imposition, mondercoss time, I grew
larger and larger. Fortunately, if was not necessary to go absord the limits of the rately, as by sow
I was determined to call them. There as a certain to
I pushed the bettern hottom, and the last was a

I came heek to the earth without accident. In what the invertibility of May, in the year 1447, that I service. As Viriah had theseled him year yell desirne which I had left. I enter down, asfordunately except, in the Sakara desart, but our fordunately except, in the Sakara desart, but our difficulties I excensioned in security may pessage had to New York. I artively of easiers, without a term of the sakara desart is a second of the term of the sakara desarts of the sakara desarts of the till, which I distanted at the entirel expectually in fewer of a sweeked title of rags which are the sakara desarts of the sakara desarts of the first malmost is noted as I would have been either the malmost is noted as I would have been either the sakara desarts of the sakara desarts of the sakara desarts. On the day that I arrived in New York, I went as case to Marryin laberatory. I was among to find at deserted. I was almostively at a bea, for his name was not an the telephon directory. In despreadon, I called at the office of a newspaper. You will all reall what languanted is Marryin, of course, but to mr it was a most hereithe and deserting miscontect the control of the contro

tion be made in forgetting that size would afford the relative longth of time. He had againsted the emplained the whole every, and it caused a terrible consistent. It seems that have were canciled ill over consistent in season that have were canciled ill over were said to constitute "the greatest memor to cur country since the civil war."

Mossiless to say, my re-oppearance has created a for more terrible remarkin. The time, better, if in factor of the sometime. My dramatic character of its factor of the sometime. My dramatic character of harrysh same from ony superstant on thome has

Martych same from any suspection of Manne has dead the innochance—such as it level the papels, and the papels and the innochance—such as it level the papels are the Kertle who is the west of the those, that the Kertle who is fitted and the papel is not the Kertle who is the time. I have to papel is not the Kertle who is the time. I have to make present any deadle in appearance and the papel is not the papel in the papel is not papel in the terriby discussed in the papel is not papel in the terriby discussed in the papel is not papel in the papel in the papel is not papel in the papel in the papel is not papel in the pap

loves it in the last cycle. For freshring, the America I know use a Bengalik still, whereas two, you know that it is the Monarchy which was declared by Theodore Rossewid during the Green Wave of 1313, and within it now ruled by the Response Theodore 11. In which is now ruled by the Response Theodore 11. In world is not maderally different from the world it left. Thus who are interested in the charges will do well for read the book which I am preparing, in odditionarities with Mercurey who at it had has come into only reportable to the contract of the contract of the concept reportable to the contract of the contract of the concept reportable to the contract of the contract of the concept reportable to the contract of the contract of the concept reportable to the contract of the con-

To-nective moraling I heave this earth, perhaps for the last time. You, who have read this attentively, must realize by now the love which, all susaspectagy!, I fell for Vinda. After a few morable bere, I some realized the turrithe ministes I had made —for I am sure that also loved on as well. During the last few years my bungling for her has grown more amhazardly great with overy hour, and I canmer ministration of the properties of the second

—for I am sure that the level me so well. During the last few years my longing for her hos grown more unhastably great with every hour, and I cannot remain here any longer. Themerow, Martyn will accompany me for the last time to that Isharatory in the country which was the hegicaling of all my fantastic adventures. En will say good-bye again, a final good-bye this

time, and he will adjust about me the sait, the globe, and the machines. I will press the top button —the top hutbon! And then—only a few boars urtill I see Vinda again.

Martyn has made the calculations. I shall appear It will of course, he in the next sycle of time, and there will be charges. But acredy my Vinda will be there, and I shall be shie to take her in my areas and tell her of all the lave I have for her. -just as this Martyn is the same Martyn I left, so will that Vinda he was Vinda Strale it is the There is one thing that sometimes worried rev keeping mind. There to this other Kirlss-this double of mine, this other we. Purhams he will have

> The Infinite Vision By CHARLES C. WINN

Then the storm outside broke into its full fury. Lightning played in rapid streams, and thunder echoed and re-school with gughty din Spidenty a bolt of blinding light reached down great ray slowly fall in a wide are to the carth.

most him there-meet myself! How impossibly it severes of Pre and William Wilson! For if we ment, and we both love Vinds, there will be only one way to settle it-we must fight, fight to the we are the same man will the dooth of one mean the death of the other too? It does not matter. At least I shall be able to say at least once to Vinda

more perception than I have had (for does not each

a terrible sev. "THE BAY!" he shricked and leaved toward the far end of the switchboard! But it was

With a midden levels, the thing on the mof had fallen completely to the perpendicular. There was its wath riming out the very vitals of the delicate appearates that gave it life! Then it grew dark. And above in wild cadence the thursier drams of

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OFF ON A COMET



attenno, a midden convolutes accurred and a great phanes in the antiserre was noted. The sun year in growthy was reduced so that they could turn to a sons a charge on the contour of the country and as the chore was charact. Everything was altered.

The Business mobilescen consect a market the "Disbruse." And now Captain Servadae and his servant one this on the distinct aroun. She reaches the shore and finds a cafe harber. Her ouner leaves her and maste Contain Servador. The dust under these is nut to mark to employe the surroundings and to

on by the erenzo-con on the bettern of the lend. bed. Some English officers are found on an isolated most sabled once enmoned to be all that once left of the Rook of Gibraltar. Presently a scaled two is found floating on the under-us old leather teletennerature sobish has been over bigh man fell to that of inter-stellar space. Later, in the mids! of these fears, some more unhabitants are found one a charming little piel. Then another measure

and solder they betale themselves to a core in the side of a volcano, where the temperature is heat there a third message from the astronomer. The arean new is france over. They not exchal sleich, runners under the boat and go off with almost iceboat raced and find an felund on which there is a find a man, apportably dead, but sole proper to have

Off On a Comet Or Hector Servadae Re HILES VERNE Rook II The only intelligible words which the astronomes

THE return of the expedition, conveying its contribution from Formenwas raised to a total of thirty-six

On learning the details of his friends did not healtate in helicolne

that the exhausted individua. who was lying before him was the author alike of the two upalgood documents picked up at edge of Gallia's movements; be tial speed; but there was noth

To what could the ovelamentian refer? Was it. if so, was it implied that the name of the comet itself was Gollia, and were they mistaken in aug-

had ottered had been, "My comet!"

space? Again and again they discussed these questions; but found. The only man who was able to throw any light upon the subject was lying amongot them in an approxima and Apart from motives of he-

after making the encouraging give the body such a vigorous

which it would be possible to recken what time must ened serious injury to any ordinary mortal, whilst slares before also would again approach the surth? they administered cordisis and restoratives from

his exertions to recall what were the circumstances

more and more convinced that he had once been familiar with them. Perhaps it was not altorether had never seen him ourse the days of his verily, that has been fermed the age of ingratitude; for, in point of fact, the astronomer was none other than Professor Palmyrin Rosetto, Servador's old science-

After completing his year of elementary studies, Heater Servadas had entered the ashed at Saint had naver mot, so that naturally they would wellwich near from each other's recollection. One things. on the other hand, might conduce to a mutual and permonent impression on their memories; during the year at the Lyofe, young Servader, never of a very studious turn of mind, had contrivat, as the why storings turn of mann, and contrived, so the lead the poor professor a life of percetual torment. and rare in a manner that was a source of un-

harryded delight to his andience.

Two years after Servedec left the Lovde, Professor Resette had thrown up all educational umplayment in order that he might devite himself entirely to the study of astronomy. He endeavored to obtain a post at the Observatory, but his uncircles that he failed in his application; however on his own account to carry on his rewayshes withdiscovering three of the latest of the telescopic aundred and twenty-fifth comet in the catalogue; but his chief delight was to criticise the publications of other astronomers, and he was never botter

pleased then when he detected a flaw in their reck-When Bex Zoof and Negrete had extrinated their have recovered by Sarvadae and the Hentenant, they found themselves face to face with a shriveled little man, about five feet two inches high, with a round hald head smooth and shiny as an cetrich's aighted people seems to have become a part of their individuality. His person system was remarkably developed, and his body might not inagely be comthe wire, hundrois of vards to length, in permented he had been partially diseated of his slothing, his heart was found to be still beeting, though faintly. Asserting that while there was life there was hope. hour, the astronomer beyond a faint sigh, which are long was followed by another and another. He there correlately, but without exhibiting any consecond to escape by line, but they were crute unhis forehead as though instinctively feeling for comething that was recovery; then, all of a sudden his features breame contracted, his face flished *My apparent premiutes, and an entire pres

In order to facilitate his operations, Ben Zoof had remayed the anestacles in quite of the tensuity with which they recently to adhere to the tenselty of his pottent; but he new ramidly brought them. necmed to be their natural position on the agriffine rose. The professor beyond a love sigh of relief.

Refore long the astronomer rounced himself a little related into his comptone condition. When next be prened his aven. Contain Servalar harmanted to be bending flown closely over hom, examining his features with surrous scrutiny. The old man darted said sharply, "Servoder, five hundred lines to-

It was an echo of days of old. The words were few, but they were enough to recall the identity which Serudae was trying to make out, "Is it possible?" he exchanged, "Here is my old

tancher, Professor Bonette, in very flesh and blood." "Can't say much for the flesh," muttered Ben The old man had again fallen back into a torrid slumber. Bux Zoof conturned, "His sloen in setting

yet. Haven't I heard of men more dried up than he is, being brought all the way from Egypt in cases "You idiot!-those were mammies; they had been deed for agea."

Ben Zoof did not answer a word. He want on remaring a warm bed, into which he managed to remove his patient, who seen felt into a calm and natural sleep.

Too impatient to await the awakening of the hed to make. Servadas, the count, and the lieutenant, the "Acquiemy of Sciences" of the Colony, spent the whole of the remainder of the dev in starting and discussing the wildest conjectures about their situation. The hypothesis, to which they had now achad been formed by a fracture of the earth's surface, seemed to fell to the ground when they found that Professor Palmyrin Rosetto had associated the name of Gallia, not with their present home, but being abandoned, they were driven to make the form his companions that, although the professor

yet he was really exceedingly good-hearted; his

When the robbing bul here continued without a

bark was worse than his bite; and if suffered to take their course without observation, his outbreaks of ill-imper seldom lasted long.

"We will certainly do our best to get on with bins," said the count. "He is no death the author of the papers, and we must hope that be will be

bim," said the count. "He is no doubt the author of the papers, and we much hope that be will be able to give us some valuable information." "Beyond a quantion the decuments have originated with him," assented the lieutenant. "Gallia was the weed written at the tip of overy one of them, and

the control of the co

of persectrical figures, coulc recision of every vitricy being reposted in constitutes profusion.

Lieutenant Procope printed out that these curves voltatify had reference to the certain of constat, voltatify and reference to the certain of constat, if it were either of the first low, the const, after eness appearing within the mage of terroristial vision, would vanish forever in the outstyle regions of space, if the last, it would be some, sensor or of space, if the last, it would be some, sensor or

then, it seemed probable that the astronomes, during his separar at Fornantiere, and been developed himself to the study of centrary orbits; and as calculations of the kind are ordinarily based upon the saturation that the civil is a parable, it was not unlikely that he had been codesvering to trace the notice of agree marketing country.

"I wonfor whether these calculations were made before or after the lat of January; it makes all the difference," said Lieutenant Precepa. "We must bide our time and hear," rapided the

"We must bide our time and hear," rapided the court.

Servatae paced restleasty up and down. "I-would give a menth of my life," be cried, unpersonaly,

"for every boar that the old fellow goes simpling on."
"You might be making a had hargain," said Precope, smiling. "Perhaps after all the center has had nothing to do with the corrulation that we have

cope, unilling. "Perhaps after all the centet has had nothing to do with the commission that we have experienced." "Nonzement" exclaimed the captain; "I know better than that, and so do you. Is it not as clear as darlight that the carth and this count have been

is ediliste, and the result has been that our bittle world has been spill off and earth from far into space? The spill off and earth from far into space? The spill of the lieutenant looked at each other is allerace. The sec dary prior theory, you we must be combat that the energoest offler space we must conclude that the energoest offler other than the velocity with within it was comet these; and be velocity with within it was

arrested at all by the attraction of the corth."
"Plausible enough," numbered Count Timaschoff;
"and it is to this count that our poientife friend
bere has given the name Gallis."

It still remained a puzzle to them all why the astronomer should apparently be interested in the comet so much more than in the new little world in which their strange lot was cast.

"There is no accounting for the freaks of phileacphare, you know," said Servador; "and have I not told you that this philosopher in particular is case of the most eccentric beings in creation?"
"Builder," odded the literatural, "it is exceeding-

"Hesides," added the Heutenant, "it is excedingly likely that has ebservation but been going on for some considerable period before the convulsion bappened."
Thus the general consistence marrived at by the Gallien Academy of Secrece was this: That on the

Thus the general continuous carried at by the Gallian Anademy of Bancow as this: That on the night of the Bilst of Documber, a cenest, creasing the cellide, had carm into eather, a cenest, creasing and that the violence of the shock had superated a hour frament from the gibbs, which fragment have frament from the gibbs, which fragment inter-rimately regions. Polmyrin Bossette would devolubes confirm their satisface of the phenomenon.

CHAPTER II

A REVELATION

THE general population of the colony the

The desired companies as expected of read in interest. The Spaniants were naturally too individual to be affected in any way by an incident to be affected in any way by an incident to be affected in any way by an incident of the control of the co

sures, and considered his regulation at attake it he failed to set his painter on his feet again. He he failed to set his painter on his feet again. He wanted every mercent, littend to every breach upon the sightest protect. Even in his along Rocette's invitable nature revealed basil. Even and any survey of the same of Gallia competing his related of the same of Gallia competing his, an attempt when the same of Gallia competing his, and though he were demaning that he sold that he the discovery of the demaning that he sold that he the discovery of the same of Gallia competing his, at though he was also to admit a the discovery of the same of Gallia competing his part of the same of Gallia competing his part of the same of the sa

prehims that they were all eager to active. When the our responsed is the westers beginns the professor was still sessed askesp; and Box 20cd, who was especially articles that the present other fall candidatellity articles that the present of the fall candidatelloc articlystop of the professor of the fall candidatelloc articlystop of earth later beavy instrument against a door that had been placed at the entrace of the fall candidatellity of earth later beavy instrument against a door that had been placed at the entrace present when for quantiles consider interest and cannidates of the professor and the professor and

sion from without,
"Confound it?" said Ben Zoof, "I must put a
stop to this;" and he made his way towards the

"Who's there?" he creed, in no very amiable tone, PRINCES FRANCES

"Proper the Bolsovie Inles" "Who are you? "The Raleoric Islant" school Isaac. "Isano Hakkabut. Let me in: do, please, let me "Yea."

'Oh, it is you, old Ashtaroth, is it? What do was want? Cap't you get anybody to buy your

"Nobody will pay me a proper price, "Well, old Shimes, you won't find a customer have

You had better be off." "No; but do, please—do, please, let me in," sunplicated the Jew. "I want to speak to his Excellency,

"The covernor is in bad, and solven."

"Then walt where you are."

And with this unbreputable rejoinder the orderly natistat, when Servadae, who had been reused by the nound of vocces, called out, "What's the matter,

"Oh, nothing, sir; only that hound of a Hakkabut "Let him in them."

"Let him in, I ray," repeated the contain, yer-However reluctantly, Ben Zoof obeyod. The deer Without voucheafing any renly, the captain back-

way to the central helf, stopped, and turning so as opportunity. Tell me what you want." "Oh, my lord, my lord," whited Issae, "you must

"News? What do you mean? "From rev little tartan vander. I now the word go out from the rook here on a journey, and I naw

it come back, and it brought a stranger; and I Doroht I thought I thought --"Well, you thought-what did you think?" "Why, that perhans the stranger had some from

He passed again, and gave a glance at the captate

"Ask him what? Speak out, man," "Ask him if he brings any tilings of Europe," Servadas shrupped his shoulders in contempt and turned away. Here was a man who had been real dent three months in Gallia, a living witness to all

bergalas with European traders was at an and The orderly, however, who had littened with much amusement, was by no means dissectined for the conversation to be continued. "Are you satisfed "Jan't it so? Am I not right? Didn't a stranger arrive here last night?" inquired the Jow.

"Fine quarters for trade! Hardly twenty bearing from Spain! He must have brought news from

"Wall, old Manasseh, what if he has?" "I should like to see him."

The Jew sided close up to Ben Zoof, and laying his hand on his arre sold to a less and to innuting

a few reals if you would let use talk to this But as if he thought he was making too liberal

on offer, he added, "Only it must be at once, "He is too tired; he is ween out; he is fast aslam," answered Ben Zoof. "But I would not you to wake him."

The contain had overheard the tenor of the conyou make the least attempt to distarb our valler. I shall have you turned outside that deep imme-

"No offence, my lord, I home," starroward out the "Silence !" abouted Servador

The old man hung his head, abached "I will tell you what," said Servadae ofter a heled interval; "I will give you leave to hear what this afrances has to tell as seen as he is able to tell us

The Jaw looked perplexed "Yer," said Servaise; "when we hear his story,

"And I hope it will be to your liking, old Enchiel!" sided Ben Zoof in a vecce of frozy, They had none of them long to wait, for within a few minutes Rosette's poervish voice was heard calling, "Joseph! Joseph!"

The professor did not open his eyes, and appeared to be alumbering on, but very shortly afterwards called out again, "Joseph! Confound the fellow! where is he?" It was evident that he was held dresoning about a former servent now far away on

the ancient globe, "Where's my blackboard, Joseph?" the orderly's face. "Are was Joseph ?" he asked

perturbable gravity. "Then get me my coffee, and he quick shout it." Bun Zeof left to go into the kitchen, and Servadas argresshed the professor in order to assist him to rising to a sitting posture.

"Do you recognize your quentum pupil, pro-"Ab. yes, yes; you are Servedae," recited Bo-

sette. "It is twoive years or more since I awar you; I hope you have improved." "Quite a reformed character, elr, I assure yeu,"

"Well, that's as it should be; that's right," said the astronomer with fussy importance. me have my coffee," he added immatiently: "I cannot collect my thoughts without my coffee." Fortunately, Ben Zoof appeared with a great cun.

OFF ON A COMET "Where, then," cried Servader eagerly, "where

hot and strong. After draining it with much annevert reliab the uniferzor out of hed walked into the common hall mound which he shared with a pre-perguised air, and proceeded to next himself in of the Dobrana had sompled. Then, in a voice full of satisfaction, which involuntarily recalled the exfirst of the mysterious documents that had been recolved he hares out "Well presierren what do you

There was no time for arrows to make a reph

"Who is that?" asked the startled professor; and

he frowned, and made a centure of resugnance.

beneath you, give me some tidium of Europe!" "Europe" shouted the professor, springing from "I want to not there!" screeched the Jows and in

suite of every exertion to got him away, he ching most tenecompaly to the professor's chair, and again implored for news of Barrens Routte made no immediate rentr. After a way ment or two of reflection, be turned to Servadao

and asked him whether it was not the middle "It is the twentieth," answered the captain.

with the greatest deliberation-'to-day we are gust three millions of leagues away from Europe."

"You seem here," continued the professor, "to "How far we are ignorant," rejtined Servadae, "I carnot tell. But I will tell you all that we do know, and all that we bare surmised." And as briefly so be could, be related all that had happened since the memorable night of the thirty-first of how the Delowns had made her voyage; how they old continent at Tania, Sardinia, Gibraltar, and premous documents had been received; and, finally,

doned for their recent energies at Nint's Hipe. The satronomer had hardly patience to hear him

"Our surposition," the captain realled, "in this, collision with a planet to which you appear to have

"Estirg than that!" eried Rosette, starting to "How? Why? What do you mean?" cried the "You are recreet to a certain degree," continued

35.6 seconds after two o'clock on the moraing of the first of January there was a collision; my correct graced the earth; and the bits of the earth which They were all fairly bewildered.

"Yes are on rev comet, on Gallie should!" And the professor essed around him with a ner-

THE PROPESSOR'S EXPERSENCES 7 RS, my comet !" repeated the professor, and

broked around him with a defined also though he could not out rid of the impression that were intruders upon his own proper domain. But for a considerable while, Servicine, the court, and the Besterant remained ellent and suck in

thought. How then, of last was the providely of the enigms they had been so long endeavoring to solves both the hypotheses they had formed in succession had now to give way before the announce-ment of the real truth. The first summetition, that some accidental modification, and the conjecture that replaced it, normaly that a cortain parties of the turnstrial ophere had been splittered off and carried into space. had both now to yield to the an unknown comet, which had caught up some scatthem for away into sidereal regions. Unfolded lay the past and the present before them; but this only Could the professor throw any light upon that?

Meanwhile Rowtte assumed a nottness profesparty to be ceremonlously introduced to him. Quite willing to humor the vanity of the countrie little man, Servadac proceeded to go through the ex-"Allow me to present to you my excellent friend,

the Court Timaschoff." be said. "You are very welcome," said Beastle, howing to the count with a smile of condescension.

edge your courtoous reception," gravely responded Servadae could not quite canceal his ammement at the count's irony, but continued, "This is Lieutaxant Process, the officer in command of the

"His racht has conveyed us right around Gallie," added the contain.

"Around Gallia?" cogerly exclaimed the profenner. "Yes, entirely around it," answered Servadae, and without allowing time for reply, proceeded,

this is my orderly, Ben Zoof." "Alds-fo-camp to his Excellency the Governor maintain his master's honor as well as his own.

Resette erarcely bent his head, The rest of the population of the Hive were all presented in succession; the Sussian sailors, the Spaniards, young Pabb, and bittle Mins, on whom the professor, endextly in lever of children, glaved isroely through his formidable speciacles. Issue

Hakkshut, after his introduction, begged to be allowed to sak one question, "How soon may we hope to get back?" he in-

"On book!" rejoined Rocette, sharply: "robe their of patient read? We have harby sarried syst." Social that the producer was included to granger, Capital Servadae advoiting save a row turn to the conversation by adding him whether he would result; these by relating his own resear on parising. The astronomer records plaused with the proposal, and it were conversed a vertices and reproduct and it were conversed a vertices and

instelling generatory presents the main features. The Permit Generation, I seek address of vertices for the permit Generation of Paris, operated a referrible committee to medical region of permit General Region of Paris, permitted a referrible committee to the permittee of the

Accordingly become Paris for the Bilessee Biles, the placed So belower You can be lighted point of Persentency and accompanied as In was early pit he placed So belower You can be lighted point of Persentency and accompanied as In was early pit he placed by the place of a former sentence and disputed by the place of the place of

which would immercially his name.
The task he had undertaken focusated the jut most performs. Night after night, in order to fix the says of his triangle, he had be ligner on the world for the assistant's legislability, but he did not frought that his processors, Arrays and Ros, had had to wait satyrone days for a similar purpose. What related the work we the dause few which, as mentioned before, at that time exceeded not only that part of Burreys, but almost the entire world.

thorad before, at that time coveloped not only that part of Europe, but almost the eartie weeds. News fading to turn to the best advantage the few intervals when the mist lifted a little, the artimotome would at the same time cast an inquiring glance at the firmanomen, as he was greatly interested in the revision of the chart of the hources,

In the region configuous to the constellation Gemini.

To the naled eye this constellation consists of only six stars, but through a telescope ten inches in diameter, as many as six thousand are visible. Resolue, however, dit not possess a telescope of this magnitude, and was obliged to content himself with

the great but communities a small instrument be

On one of these consistent, whilst carriedly gauging the recession of Germit, he coupled a bright spack which was arregistered in the chart, as the state of the strict he took free a small state that all example that a surfaced in the catalogue. But the observation of a few separate injusts accor under transfers that the star was rapidly changing its position with regard to the adjucent stars, and the autorocom's beautbeaut to keep at the thought that the recover of the discovery of a new sharts would be associated.

with his name.

Reduciting his attention, be soon suttaffed himself that what he naw was not a planet; the rapidity of its displacement rather forced him to the one picture that it must be a come, and this colinion was soon strengthessed by the appearance of a corn, and that could be a considered that the picture that a must be a come, and the could be a considered to the constant of the constan

the own, by the development of a tail.

A court! The discovery was fast to all further
progress in triangulation. However conselectionsly
the autofami on the Spenish coast might book to the
ladding of the bearon, Recette had not a gione to
spore for that direction, he had no eyes except for
the one object of his notice, no thought sport from

A const! No time must be lost in calculating its elements.

Now, in order to calculate the elements of a const, it is always deemed the suffect made of pro-

contains in a summer the orbit for her specialists. Order, surely, ceremis are comprisoned to their portfields, as surely, ceremis are comprisoned to their portfields, as the focus of their orbit, and instead as a parallels in nearly an ellipse, but with its acts indefinite by predicate, for some sheet partition of lite pathway by predicate, for some sheet partition of lite pathway the orbit way be intifferently occupied and their case the green for the partition of the pathway of the pathway that the sheet is a superfitted in a deptite of the proposition of lite being marabolit. Just as in a drivel it is measurely to know them.

points to determine the circumference, so, in ancertaining the elements of a count, three different pasitions must be elemented before what astronomore call its "ephemoric" can be established. But Professor Rosettle did not contact Munsell with three positions; taking advantage of course

with three positions; testing advantage of overy rifth in the fog he made ten, twenty, tharty charavations both in right accession and in declination, and succeeded in working out with the most niture accuracy the five elements of the count which was evidently advanting with asteunding repidity towards the carth.

These elements were:
L. The inclination of the plane of the company

orbit to the plane of the ediptic, an angle which
to la generally considerable; but in this case the
planes were proved to coincide.
2. The positive of the ascending node, or the

2. The position of the ascending node, or the point where the count creased the terrestrial orbit. These two elements heling obtained, the pottion in space of the count's orbit was determined.
8. The direction of the soil ratio of the orbit.

which was found by estrubiting the longitude of the comet's perihelion.

4. The perihelion distance from the sun, which octifed the precise form of the nambels. he resolved that it should be known as Golife. His next business was to draw up a formal report. Not only did he at once recognize that a colnaw that it was fugy(table, and that it must happen

shock could hardly fall to be violent. To say that he was cloted at the prospect was

far below the truth; his delight amounted almost the selitude of Formenters in sheer fright; but, without correspondenting a word of his startling diswhere; and the ignorance of the world so to the need that threatened it exerted the name that would have philosopher of Formenters in sele possession of the great secret. He show to his nest with the greater

accounts to the part of Alegria and as it had a The shock came, and with it the rought already from his servant Joseph, and when, after a lone

the professor save with sundry repetitions and

secred by no means justified by the noticet and "But now, rentlemen," added the prefessor, "I

must tell you scorething more. Important changes that I was still upon the earth. No! the earth, atproper orbit. But we, pentlersen, have nothing to we might all have been crushed to death, or the cornet might have remained in adhesion to the

had the netlefaction of making this marvelous on cureton through untraversed solar regions. No.

that if the comet had happened to strike against have uset with some recistance.

"Misla boll!" ovelsimed Bee Toof street to the culck. "I can tell you it would have cought up your bit of a correct and marry it like a feather in a con-The professor looked angry, and Servadar having imposed afferce ween his orderly, explained the Montmortee. Always obedient to his master. Her

forwise the slight that had been cost ween his beastronomer had been able to continue has observed Gallia's path through space to make him correctent

to determine, as heart approximately, the period of and contien as he could Lieutenant Processe on information on this point. "Before the shock sir," answered the professor. "I had conclusively demonstrated the path of the

errort; but, in consecuence of the modification which that shock has entailed more yes count's court. I have been compelled to recommence my calculations The Restaurant looked disappointed.

"Although the orbit of the earth was mailtered," continued the professor, "the result of the collision was the projection of the comet into a new orbit altogether."

"And may I ask," said Procope, deferentially

"Then perhaps you know-

"I know this, sir, that at 47 minutes, 35.6 sec-

onds after two seleck on the morning of the let of January last, Gallis, in passing its ascerding node, come in contact with the earth; that on the it reached its peribelion on the 15th; that it recrossed the orbit of Venue; that on the let of February it passed its descending node; on the 13th crossed the orbit of Mars; sutered the some of the telescopic planets on the 10th of March, and attracting Norma, carried it off as a satellite." "We are strendy sequested with well nigh all

these extraordinary facts; many of them, moreover, we loarned from documents which we picked up, and which, although unsigned, we cannot entertain Professor Recette drew himself up proudly and sold: "Of course they originated with me. I sent

there off by bundreds. From whom else could they come?" "From no one but warrooff, agriculty," relained

the court, with grave politeress, Hitherto the conversation had thrown no light

was disposed apparently to evade, or at least to postpone, the subject. When Lieutenant Process was press the little second too far, interrupted him by

having suffered so little from such a formidable "Afraid an? Why afraid of such a recetion?"

"Because we are doing encoodingly well as we "I account for it in this way " answord Deputter "Because we are trong encountry and as no "the earth was traveling at the rate of \$8,000 ground, by way of emphasis, and added, "If I had as though a train, rushing along at a greed of

countered some obstacle. The nucleus of the cornet. would do fired with that polocity class to a name of often. It has owned the earth without cracking

"It is resulble you may be right," said Servedae

"Right! of course I am right!" realist the sname

might have coused are beyond reckening. Perhans," he added, with a swife, "your Montreovice

"Rivi" shouted Ben Zoof, cuite mable to bear the "Quiet, Ben Zoof!" sald Servadac storaly. Portunately for the soke of neace, Isaac Hokka-

ness, implered the professor to tell him when they monid all he hark sosie upon the earth. "Are you in a great hurry !" asked the needlessor The Jew was about to speak again, when Captain

Serendar interposed: "Allow me to say that, in

"Did you imply that the orbit has ceased to be a

"Is it then an hyperboln? and are we to be can ried on far and away into remote distance, and

"I did not say an hyperbols."

"Then it must be an ollingel"

"And does its plane coincide with the plane of the

"Then it want he a periodic comet?" Rervolve involuntarily raised a ringing shout of

"Yes," continued the professor, "Gallia is a neriodic comet, and allowing for the perturbations to

"You ween that in two wars after the first shock, the very air seemed to be convenied; no particle of Callle will most the earth at the same point at

appearance amount the rest of the little com-The gold now became very intense, the thermometer registering 50° C. below zero. The mercury, that are over and again to be observed in variable .

his observations by night, and very rarely made his

This steady sinking of the mercury was accom-

chool; neither were there any of the damp mists or

his abods. It was on all hands acknowledged to be

In these retired quarters the astronomer took up

chair, a chest of drawers, and, what was of still

tury where he might continue his studies without before long they were lucky enough to find, about a bundred feet above the central grotto, a small renave or case believed, as it were, in the mountain contained room exough for a bed, a table, an arm-

former tutor, Servedoe proposed to put the most but the professor resolutely declined to pecupy It saying that what he required was a small chamber,

little or no regard to the ingenuity with which all the internal arrangements of Nina's Rive had been

The next day or two were spent to providing for the accommodation of the newcorner. Fortunately

As to the fulfillment of the professor's predic-

the stands ofter the shock was the retreating easth. to the proximity of which the one high tide they

In the presence of the one grant they they

LL previous hypotheses were now forgotten

A REVISED CALENDAR

dry fogs which so often extend over the pelar reof Gallin into his possession, and to do this he must
gious of the earth; the sky was always alsar; the sun sell his groots. But he would not sell them yet;

show by day and the stars by might without come may preceptible difference in the temperature. As the many processing of the directive from it the open star. The state of so many of the diseases that prove facility of which explores to the diseases that prove facility of the conference to the disease that prove facility of the conference to the disease of the star of the disease of the territies more define, which by drying up, taking the disease of the disease of the disease of the disease enthurisms of the disease of the disease of the disease and the disease of the disease of the disease of the disease with the disease of the disease of the disease of the disease of which the disease of the disease of the disease of the disease of the disease with the disease of the diseas

sold, in the abouts of the wholl they small above her large. The three her chief between the right. The compensation of the compensation of the compensation of the compensation, the Billie population found that they were also to more about in the open also with his special care to see that his population found that the special care to see that his population of the compensation of th

the error of the Poleris, that, however laterse the

in give her a hajding hand behaviour the wat wasty.

The mode accession of the control particular form her cacession, we will the nearly articular form the caces of the control particular form on the cace of the cace of the caces of the ca

or the distriction of the present of the controlled of the present of the present

On the one head, the Jow took it into account that although the chances of returning to the earth night be remain, yet from what he had been from the prefetouse he could not he halve that they were improbable; on the other, he know that a confidence some of money, its Begins not Remaine colours, who is the prosection of window newbern and the source of the second of the second of the colours, who is the prosection of which the works are not to be source of the second of the second colours. there might come at time when for many articles the supply would not be equal to the demand; that would be the time for him; by waiting he reakened he should be able to transact some lacentive business.

Such in his solitude were old Issae's cogitation whilst the universal population of Niss's Hire we congretulating themselves upon being rol of he odorus precessor.

odrous protector.
As already solided in the message brought by the
As already solided in the message brought by Golda joAppel was 19,960,000 keepes, more all yellow as
Appel was 19,960,000 keepes, more all yellow as
A diagram representing the elliptical certif of the
point, accompanied by an ophomeric mode out in
minute detail, had been drawn out by the professor.

The processing representing the professor of the sunminute detail, had been drawn out by the professor.

The processing representing representively the dismercial length, representing representively the dis-

could open not in the twelve forces of viscous, secreting to kepter's law, greathastly distinishing in length to kepter's law, greathastly distinishing in length on they approached to peat if according the specific and they approached to peat if according the specific and they approached to the peat if according the specific and it is a man on the lift of May that. Resette exhibited that result of his labors to Servador, the overal, and the Restearch, who visited his apportment and subtracting the disposate with the keepend life areal to consider exhibited the keepend life.

the information, who winds to assert these states of the control o

the sun."
"Just so," replied the professor.
"Then we have already passed the sone of the

telecoppe genetes, have we no!?" asked the court.
"Can you not use your eyes?" and the prefessor,
testily, "If you will leek you will see the zour
marked clearly enough upon the may."
Without noticing the interruption, Servadae continued his own remarks. "The corest then, I continued his own remarks. "The corest then, I con-

is to reach its aphalion on the 18th of January, asactly a twolversonth after passing its perthelian." "A twelversonth! Not a Galfan twelversorth!" coolnined Rosette, Barvalus leeked bewildered, Lieutenant Proceps

Barvadae locked bewildered, Lieutenant Process could not suppress a smile, "What are you laughing at?" demanded the profeaser, turning round men him approxy.

"Nething, sir; only it amuses me to see how you want to revise the terrestrial calendar,"
"I want to be locical thin's sil."

"By all manner of means, my dear professor, let

AMAZING STORIES stony of existence was an accordinal plain from the

"Well, then, listen to me," resumed the professor, stiffer, "I presume myn are taking it for granted which Gallia makes one resolution round the sun-

"And that year, like every other year, ought to be "Yes, certainly, if you wish it," said the centale,

"If I wish it?" emplaimed Bosetta, "Nothing of the mort! Of course a year must have twelve

"Of course," said the certain "And how many days will make a month?" asked

"I suppose sixty or sixty-two, as the case may be, The days now are only half an lang as they used to

"Berynday, don't be thoughtless!" oried Rosette. with all the notulant impatures of the old mode. POWER. "If the days are only half as long as they

were, sixty of them cannot make up a twelfth more "I surrows not," ryplied the confused cartain,

"Do you not see, then," continued the salvaners "that if a Gallian month is twice as love as a terrestrial month, and a Gallian day is only half as

"No doubt you are right, professor," said Count

troubleston ! "Not at all! not at all! I do not beland to me are

other," was the professor's blaff reply After pandering for a few moments, the captain spake again. "According to this new calendar, it time in March."

"Yes," said the professor, "to-day is the 26th of corresponds with the 153d day of the terrestrial year. You are quite correct, it is the 26th of

"Strange I" muttaged Servadas. "And a mouth, a terrestrial mouth, thirty old down, sixty naw days hance, it will be the fifth of

"Ha, hal" roured the captain; "this is logic with The old professor had an undefined consciousness

no more leisure. The visitory accordingly cultied It must be owned that the revised calendar was left to the professor's sole use, and the colony was

of dates as the 47th of April or the 118th of May. distance of 155,000,000 leagues from the sun. The thermanoier continued to fall; the atmosphere re-mained clear as beretofore. The population revtine; and almost the only thing that herks the mon-

ture collision between the cornet and the carth; and in the same degree as this was a matter of

ment. Samebow or other the conversation would friends, it was a motter of aversion to the satronomisal enthusiast, who had no desire to cuit his own discovery, he could hardly have cored for more if it had been of his own exection. The inter-

binsteeing, pervous, little professor, when some madden farey induced him to throw ande his as-

tronomical studies for a time, and pay a visit to the common hall. His arrival there was expeculty

view would often terminate in a scene of consider-On the 27th of June (old calendar) the professor hered blue a connectival into the central half

where they were all scarmbled, and without a word of salutation or of preface, accorded the liquidesport in the war in which in earlier days he had been accustomed to smak to an idle scheel-hor, "Now,

lisutement no evasions! no shuffing! Tell me, have The Bentenant drow himself up stiffly, "Rea sions! shufflings! I am not accustomed, afr..." he

and sirenty said, "We have." "And way I ask," continued the professor, quite

"As armiterioristable as I could" resided the Heatenant; "I did what I could by log and compare. I

"At what result did you arrive? What is the "I estimate the total circumference of the erra-

"Ah!" said the professor, more than half speaking to himself, "a circumference of 1400 relies would give a diameter of about 650 miles. That

would be approximately about one-eixteenth of the Ralsing his voice, he continued, "Gentlemen, in order to complete my account of my comet Gallia, I

require to know its area, its mass, its volume, its "Since we know the diameter," remorked the lieu-

tenant, "there can be no difficulty in finding its surface and its volume." "And did I say there was any difficulty?" asked

the professor, ficroely. "I have been able to reckon that over along I was been, "Cock-a-deedle-foo?" cried Ben Zoof, delighted at

The professor looked at him, but did not supply

With more submission than when he was a school-bay, the captain sat down and endeavored to

recall the proper formula. "The surface of a sphere? Multiply circumferonce by diameter."

by this time. "Circumference, 1.400; diameter, 450; area of sorface, 630,000," read the centain "True." replied Resetts, "810,000 square miles; inst 292 times less than that of the earth."

"Pretty little comet! nice little comet!" muttered The estenoymer hit his lin, sported, and east at

"Now Captain Servadae," sold the preference "take your pen again, and find me the volume of

"Onick, swick?" oried the professor, impatie "agrely yeg have not forgotten how to find the volume of a sphere?" "A moment's breathing time, please," "Breathing time, indeed! A mathematician should not went breathing time! Come, multiply

Captain Servadae applied himself to his task while the in-standers waited, with some difficulty suppressing their inclination to laugh. There was a

"Just about one foodbenourdth that of the earth" observed the Bentemant. "Nice little comet! nextly little comet!" said The professor secwied at him, and was mani-

sions of his comet pointed out in so disparacing a from the earth he supposed it to be about as conwould require a good telescope to see it.

"He, ha!" langhed the orderly, aloud: "charming little comet | so pretty; and so modest?" Hen Zoof laughed the more, and was on the point of repealing his sattrical comments, when a stern order from the captain made him held his torque. tive about his comet as the orderly was about Mont-

martre, and if the contention between the two had been allowed to go on unchecked, it is impossible to any what serious quarrel might not have arisen. reatored, he said, "Thus contiemes, the dismeter, the surface, the volume of my second are sattled; but there is more to be done. I shall not be patie-

"A laborious problem/" remarked Count Time-

"Laborious or not, it has to be accomplished "World it not be of some assistance, if we know of what unbetance it is correspond?" saked the

"That is of no mement at all," replied the professor: "the problem is independent of it."

"You renet understand, however," said Reactio, "Phat there are various realiminary establishes to be made; very will have to wait till they are "As long as you please," said the count.
"No hours at all," observed the cantain, who was

not in the least impolared to controve his weether "Ther, postloner," said the astronomer, "with your leave we will for this purpose make an ap-

pointment a few weeks hunor. What do you say Wribert noticing the general amile which the

CHAPTER V

TNDER the attl directiching influence of the

rance Godin continued its inter-physicians lite, which performed its fortnightly revolutions Meanwhole, the question beyond all others im-

calculations correct, and was there a sound foundstouch the earth? But whatever might be then doubts or anxieties, they were fain to keen all them

The rest of the community by no means shared in their uneasiness. Negrete and his fellow-countrydifference. Happier and better provided for than they had over been in their lives, at did not give carelled out their favorite songs, just as if they Happicet of all were Pable and Nina. Racing

through the galleries of the Hive, clambering over Nor was their recreation allowed to interfere with their studies. Captain Servadae, who in commer with the count really illerd them both, especified that the responsibilities of a parent in some degree had developed upon him, and took great care in

Indukred and loved by all, it was little wonder

n erecon r

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Of Sardinia. They had now a home in which they

"Then an ordinary pair of saales, bring under the
had relibling to desire,
"and of Philo.

Inflamon of struction, I approxy, would not answer

The many have I," and the boy, "I used to run size more have I," and the boy, "I used to run size the color of the diffusers when I was in Spain."
"I used to look after greats at Madukan," and Nina; "but it is much moor have—I am on larger bow. I have you for a brother, and everyholdy is so kind. I am afraid they will spall us, Pato," she shield, smiller.

"No." she answered

kind. I am afraid they will spell us, Pablo," she sided, emiling. "Oh, no, Nina; you are too good to be spoiled, and when I am with you, you make me good too," said Pablo, gravely. July hed now arrived. During the month Galila's

advance along its orbit would be reduced to 22,003-000 leagues, the distance from the saw at the ord heigh 122,000 leagues, about four and a half times as great as the average distance of the earth from the san. It was traveling now at about the same speed as the earth, which traverse the exhibit at a red of 22,000,000 leagues a smoth or 23,840 or at a red of 22,000,000 leagues a smoth or 23,840 or

leagues in none.

In the time site 60d of April, according to the revised Gaillian calendar, develed; and in principal fulfillment of the professor's appointment, a note was delivered to Servishe to say that he was ready, and boyed that day to connecte operations for calculating the mass and density of his count, as well as the force of wravity at its surface.

A point of far greater interest to Captain Sevidae and his friends would have been to ascertain the solute of the substance of which the count was composed, but they fail pedged its remise the proisons may aid they could in the researches upon which he had sat his beart. Without daily, therefore, they assembled in the central hall, where they were soon foliced by Research, who assemed to be in

were soon joined by Resetts, who seemed to be in fairly good tempor.

"Baselismen," to began, "I propose to-day to encountry to complete our observations of the demanda before us. First, the measure of gravity at its surface, this attendity force or know, by the increase of our own removable frees, must of curse he concidentably less then that at the surfaces of the certifity.

unit of the volume. We will proceed greathersus, if you please, to weigh Gallis."
Ben Zoof, who had just entered the hall, caught the professor's last sentence, and without saying a word, word out again and was shown, for come

word, went out agein and was absent for comeminutes. When he returned, be said, "If you went to weigh this conset of yours, I suppess you want a pair of scales; but I have been to belt, and I convect find a pair anywhere. And what's more," he saided mischlerecasty, "you won't get them anywhere."

A from came over the professor's countenance. Servades and it, and gave his orderly a sign that he should desist entirely from his handring. "It require, gentlemen," resumed Rosetts, "first of all to know by haw much the weight of a Ribgrams here differs from its weight upon the earth the attraction, as we have said, being less, the

your purpose," submitted the limitmant,
"And the very kingrum weight you used would
have become lighter," put in the ownt, defercetially,
"Pray, gentlamen, do not interrupt me," and the
wordeare, submittablesh on if on enthedred "I made

professor, authoritatively, as if en cethodre. "I need no instruction on these points." Procope and Timaceheff decurrely bowed their heads. The professor resumed. "Upon a spring-balance.

The prefusion resumed. "Upon a spring-balance dependent upon more tension or flashifty, the attraction will have an influence. If I suspend a wheth upon it equivalent to the weight of a kill-gram, the index will regulate the proper weight on difference I swort the difference and the control of the prefusion and the control of the control of the prefusion of the prefusion of the prefusion of the control of th

The audience looked at one another, and then at hen Zoof, who was thoroughly acquainted with all their resources. "We have nother one nor the other," said the orderly. The professor stamped with vaxation.

"I sellere old Hakkritet has a spring-balance on board his tertan," said Ben Zoof, presently. "Then why diffu't yes any so before, you libs's reared the excitable little man. Arcticus to proiffy birt, Servidae assured him

trast every executed steady to make to procure the instrument, and directed Ben Zoof to go to the Jew and borrow it.

"No, stop a moment," he said as Ben Zoof was moving away on his ceready "serhaps I had better go with you moment; the old Jew may make a diffited by the control of the control of the control of the moving away on his ceready "serhaps I had better you with you moment; the old Jew may make a diffi-

colly about heading as any of his property."

"Why should we not all go!" asked the count;
"we should see what kind of a life the magnifunge
leads on beaut the Hanas."

The proposal met with general approbation. Be-

one of the mor might be ordered to out him a cubic destinator out of the solid substance of Gallia. "My engineer is the race for that," said the count; "he will do it well for you if you will give him the precise measurement."

die measurement."

"What I you don't mean," exclaimed the professor, agois poing off into a passion, "that you haven't a proper measure of length?"

But Soof was sent off to reaser't the stores for

the article in question, but no measure was forthcoming. "Most likely we shall find one on the tartan," and the orderly.
"Then let us have no time in trying," anywored

"Then let us have no time in trying," answered the professor, as he brathed with hasty strides into the pallery. The rest of the party followed, and were soon

in the open air upon the rocks that overhung the above. They descended to the level of the frozen water and scale their way towards the little creek where the Dobryses and the House ky family imprisoned in their ky bonds.

The temperature was low beyond previous experiance; but well multid up in fur, they all endured it without much actual satisfacting. Their breath issued in vapor, which was at cocc congested into little crystals upon their whickers, breach, errbrows, and evisiables, until their faces, covered with

many whalers.

the dock

countless asow-white pricities, were truly indirents. This professor, most contral of all, rescended nothing as quasi-control of all, rescended nothing as great above, in the morning. The san was registly appreciating the sentity, but its dispersion of the control of the cont

was regularly appreciating this matth), Dol. 10c days, destroyed, the same harmonic districts of their proper sourch and radiance. The violance is in proper sourch and radiance. The violance is intered to the same of the same of the same extented follow white the almosphere was still be some extented follow white the almosphere was still be some extented follow white the analysis of the result of the same to the same of the same of the same of the same of the two given in the same of the same feet up the mountain, was a dark hala, above within the extens of the same in the results on the course.

teleocope; it was the opening of Faingrein Resettles cheermatery.

Bea and lead soomed Mended it to one desary withteness, to which the pub him sky offered outcome by any centroot. The abset was independ with the marks of many farthering left, by the colonials either marks of many farthering left, by the colonials either marks of many farthering the complete of the or as the resett of their electric cooperflower, the electron of the identities of any one of the colonials.

complicated as the figures traced by squatic insects upon the surface of a poel.

Across the quarter of a mile lovel ground that lay between the mountain and the croix, a series of footprints, frozen hard into the snow, marked the course token by Issue Halkbaht on his last return.

from Nina's Hive.
On approaching the creak, Lieutenant Processed drew his companions' attention to the elevation of the Debrace's and Hernel's materials both wants.

the Debryon's and Hunn's waterline, both vessels being now some different feet above the level of the sea.
"What a strange phenomenon?" exclaimed the

"It makes me very uneasy," rejoined the lieutenant; "in shallow places file this, as the crust of

ice thickens, it forces everything upwards with irresistible force."
"But surely this process of caugebiles must have

"But who can say what that limit will be? Remember that we have not yet reached our measurem of cold," regired Process."

"Indeed, I hope not!" exclaimed the professor; "where would be the use of our travaling 200,000,

Old lagross from the sax, if we are only to experience the some temperature as we should find at the poles of the earth?"
"Fortunately for us, however, professor," said the Bestenatt, with a smile, "the tornovature of

the Bestement, with a smile, "the temperature of the remodest space never decemb beyond 70° C. Bebow 2007."
"And as long as there is no wind," wided Sersades, "we may peas comfortably through the winter.

without a single attack of catarrit."
Listitenet Preeps proceeded to impart to the count his articly about the situation of his yasht, He pointed out that hy the constant superposition of new disposits of ice, the vessel would be deraised to a great beight, and consequently in the event of a true if much be consult to a calculate uniform.

many weeks.

The property of the property of the property of the party had already reached the party had already reached the party had already reached the part where he flows hay beard in he reg transmets. A flight of steps, reachly hown by Haldshire themself, gave access for the present to the purpose, but it was owners that some different centrivance would have be be recorded to when the turns should be advanted to the property of the prope

A this curi of his works issued from the engage funcial that projected alrew the mass of arrow which had accurrentated upon the deck of the Hesses. The owner was apering of his foot, and it was only the course was apering of his foot, and it was only the owner was apering of his role, and it was only the that readered the interval temperature orderwise. "HI! old Neukolakinama, where are year" should Ben Zort, at the full strength of his lunn, At his sound of this voluge, the earlier door spanse, where the property of the course of the course

CHAPTER VI

"HO'S there? I have nothing here for anyons. Go away?" Such was the inhospitable greeting with whoch Lasse Hakkabut received his visitors.
"Hakkabut! do you take us for thieway?" saled

Serviciae, in tenes of stern displanare.
"Oh, your Excellency, my lerel, I did not know that it was you," whined the Jow, but without emerging my further from his cable.
"Now, old Hakkabut, come out of your shall?

"Now, eds Hakkisher, come out of your shell?"
Come and show the governor preper respect, when
be gives you the heave of his company," cried Ben
Zeod, who by this time had clambured up on the
deck.

After considerable healtation but still keeping

his hold upon the cabin-door, the Jew made up his mird to step outside. "What do you want?" he inquired, timorously. "I want a word with you," said Servales, "but

"I want a word with you," said Berndas, "but I do not want to stand talking out here in the cold."

Followed by the rost of the party, he revereded to

mount the steps. The Jow trembind from band to foot. "But I cannot let you into my onlin. I am a poor man; I have neithing to give you," he mound pittorially.

"He re is in!" laughed His Zoof contemptionally; "The is beginning his obsource of immentations over

again. But standing out here will never do. Out of the way, old Habkainst, I say out of the way? I sand, without more ade, be thrust the astendard we to one side and append the door of the cabin. Servador, however, declined to enter until be had taken the pairs to explain to the owner of the taxts. The taxts that the had an intention of larger articles.

3. Servaine, however, declined to enter until he had taken the pains to explain to the owner of the starten that he had an intention of laying releient r, heads upon his property, and that if the time should over come that his curpo was in requisition for the common use, he should receive a proper price for his goods, the name as he would in Europe.

"Bureps, indeed!" muttered the Jew malkdonely between his touth. "European prices will not do for me. I must have Gallian prices—and of my own

So laws a portion of the money had been seen printed to the curren that the space reserved for

corner of the compariment stood a great ure stood two or three stools and a rickety deal table, together farniture which was worthy of its proprietor. On entering the calon Ren Zeof's first properties

was to throw on the fire a liberal supply of mala. as approit to such reckless expenditure of his fuel. The perishing temperature of the cabin, however, and by a little skillful munipulation he seen suc-

The visitors having taken what seats they could Hakkubat about the door and like a refrence

"Listen," said Seresdae; "we have come to sale Irrogalaing that at least half his navorate was to

nothing to spare; but Servedec, without heeding his complainings, went on: "We are not swing to Hakkabut looked keenly into the captain's face. "We have only come to know whether you can

lend us a suring-belonce." So for from abording any symptom of relief, the so if he had been asked for some thousand france:

"Yes!" echoed the urefessor, impatiently: "a

"Haven't yes one?" saled Servidae "To be sure he hant" said Ben Zeof Old Issac stammered and stuttered, but at last confessed that perhaps there might be one amonest

"Then, aurely, you will not object to lend it to "Daly for one day" added the renferen The Jow starrmered again, and began to object

The cold, you know, the cold may do injury to the weigh something very heavy."

"Why, old Rohralm, do you numpece we are going to weigh a mountain with 187" said Ben Zoof. "Better than that?" gried out the professor. triumphently; "we are going to weigh Gallia with

it-my const." "Mareiful Heaven!" shrfeked Isaac, felaning con-

much lighter everything had hecome) could not pos-

"Well, then," said Servedee, "If you do not like to

The Jew still splattered, and moaned, and besi-

Issue fairly shricked aloud. "God of Issuell" be deprive me of one of the most indimensable of my changes without my spring-balance-my solitary The orderly wondered how his master could refrein from strangling the old miner men the arct; but Servadas, rother arresed than otherwise, de-

Hakkabut. I see that you are not durnesed either to lend or to sell your balance. What do not our to The Jew's even turbilited with a sotisfaction that he was mable to conreal. "But what accounty would

you give? The instrument to very valuable:" and he looked more curaing than ever "What is it worth? If it is worth twenty frames,

I will leave a deposit of a bundred. Will that satisfie He shock his hand doubtfully. "It is very little: is the only apring belonce in all this new world of

curs; it is worth more, much more. If I take your

"Ob, it is dart cheep; but never mind, for one look around, went out of the cabin.

"Detectable old wester!" realied the rount, full Hardly a mirate clarged before the Jew was back

again, carrying his precious instrument with ontentations care. It was of an ordinary kind. A spring balance, fitted with a hoak, hald the article to be weighed; a pointer, revolving on a dist, indioated the wright of the article. Professor Rosette was manifestly right in asserting that such a machine would register results onits independently of it would have registered a kilogram as a kilogram; here it recorded a different value alterether, as the

result of the altered force of gravity. Gold coinney to the worth of one hundred and clutched at the maney with unwistakable correness. The haloure was committed to the leaving

of Ben Zeef, and the visitors prepared to quit the All of area it accorded to the preferror that the balance would be absolutely uncleas to him, prices be

mont of the unit of the soil of Gallia which he promand to weigh. "Sarrething more you result lead

"I must have a measure, and I reast have at "I have neither of them," suswered Ispan, "I

have neither. I am sorry; I am very sorry." And this time the old Jew spoke the truth. He would

of husiness upon terms as advantageous as the

Back again, down the ladder, arramhled the little professor, and before the Jew was aware of his

overcoal. "Some of your money! I must have "Money!" gasped Hakkabut; "I have no money."

He was role with fright, and burdly knew what he "Falsehood!" roared Rosotto. "Do you think I

"Heave of money! French money! Free-france The captain and his friends, who had returned to the cable looked on with minded amusement and

"Thay are mine!" shrieked Hakkahut,

"No but I want!" nersisted the professor again. "My dear professor," he said, smiller, "allow me to

"Ah, your Excellency," mounted the agitated Jew.

"Silence!" cried the captain.

"I must have more than that," the professor recttinged, "I want ten two-franc pieces, and twenty "Let me see," said Servaine, "how much is that

"Count. may I ask you," continued Serveduc, "to

"Lean!" cried the Jew, "do you mean only a

yures centained only pency money, begred to place "No paper, no paper!" exclaimed Issue. "Paper

"About as much as afferr," coolly reterted the "I am a peer man," began the Jew. "Now, Hakkahut, stop these miserable lements-

Isage beggs to yell with all his might: "Thiowas!

In a moment Ben Zoof's hand was clasped tightly

When the old Jaw had amon recovered himself, Nothing scold averages the Jew's service to make another good bargain. He began: "Money is

scarce, very scarce, yed know-"
"No more of this?" shouted Servadae. "What in-

what he was about to cay. He flung down notes to the value of several rubbes. With a greedings that could not be concealed, Hakkabat grassed them all. boward the value of his cash. He was welving some eighteen hundred per cent. interest, and accordingly

The professor pocketed his French sains with a

CHAPTER VII

QUARTER of an hour later, the visitors to A the Hessa had rea-hall of Nina's Hive. the Heren had responshed in the common "Now, expliemen, we can proceed," said the pro-"May I request that this table may be

Box Zeef removed the various articles that were lying on the table, and the coins which had just been begrowed from the Jew were placed upon it in

throu piles, according to their value The professor commenced. "Since pane of you caption to save either a meter measure or a killogram weight from the earth, and conce both these

of my own to replace them." This exordium delivered, he peased and seemed too wall acquainted with the professor's temper to

Implied reproach,

indeed, they are almost new. They have been reveise length of a terrestrial meter." tions of voters, core for all. Hard us over two hun-Ben Zoof looked on in perphoxity, regarding the

feasor's meaning. They know that French coinage

to all decired, the force being the standard of which the other come, whether gold, silver, or corner, are multiples or measures: they know too that the rigorously determined by low, and that the diametars of the allver coins representing five france, two france, and fifty captimes measure thirty-sayon. had conceived the plan of planing which a rember of

united diameters should measure exactly the thousand millimators that make up the terrestrial meter. The measurement thus obtained was made by means of a pair of companses divided accurately into ten equal portions, or decimeters, each of course S.f.G. Suchas lang. A red was then cut of this exact

who was directed to cut out of the solid rock the cable decimates resulted by the newfrance. The next business was to obtain the precise waight of a kilagram. This was by no resons a difficell reation. Not only the disperson, but also the

"Oh!" oried Ben Zoof: "to be able to do all this. I see you write he rich as wall so harred? With a good-ustured laugh at the orderly's remark, the meeting adjourned for a few hours. By

task, and with all due care had prepared a cubit decimeter of the material of the comet. "New, gentlemen," said Professor Rosette, "we

now arrive at Gallia's attraction, density, and DASS." Everyone gave him complete attention. "Before I proceed" be resemed, "I must recall to your rejude Newton's reneral law, 'that the at-

tractice of two hedies is directly proportional to the product of their masses, and inversely propertional to the square of their distances." "Yes," said Servades; "we remember that." "Well, then," continued the professor, "keep it in

mind for a few minutes now. Look here! In this har non farty frea-franc pleass-altogether they weigh exactly a kilogram; by which I mean if we were on the carth, and if I were to hang the hag on would register one kilogram. This is clear enough.

As he spoke the professor designedly here his eves dued upon Ban Zood. He was avowedly folabways in lecturing to watch the countensace of the least totalitrent of his audience, and when he felt childed that he must have agreeded with all the rest. In this case, however, it was technical ignor-

Seriefuel with his seruting of Ren Zoof's face, the to see what these ocitis weigh here upon Gallia." We sumeried the money has to the book; the

the mass or weight. This way a matter of little prefessor west on, "And now, gentlemen, we have

needle confined and stormed. There is affile by The weight registered was one breedend and "There, contiemen, one hundred and thirty-

gram! You see, orresequently, that the force of "Interesting!" cried Servadar, "most interesting !

But let up go and compute the mass." "No. cartain, the deputy first," said Bosette. "Certainly," said the Bestemant; "for as we al-

ready know the volume, we can determine the mass e'You The professor took up the cabe of rock. know what this is," he want on to say, "You know,

postloner, that this block is a cube bewn from the substance of which over-where, all throughout your voyage of circumnavigation, you found Gallia to be composed-a substance to which your evolution attainments did not suffer to assist a narron." "Our curiosity will be gratified," said Servedac,

"If you will entighten our pergrapes."

the interruption "A aphatoane it is which no doubt constitutes the sale material of the cornet, extending from its surface to its imperment depths. The wookshilling is that

ability; you have found no trace of any other subme may at the majority and ma shall have the loss salesh will unlock the problem of the whole werebi of Gallia. We have demonstrated that the force of attraction here is only one-arounth of what it is unon the earth, and shall oversemently have to

in order to ascertain its proper weight. Do you understand me, goggle-ever?" This was addressed to Ben Zoof, who was staying "I thought not; it is of no use waiting for your purch-brains to make it out. I must talk to these

The professor took the cube, and, on attaching it

weight was one kilogram and four hundred and "Here it is, gentlemen; one kilbgram, four hundred and thirty groms. Multiply that by seven; the

product is, as nearly as possible, ten kilograms. What, therefore, is our conclusion? Why, that the to a cubic decimeter. Had it not been for this have been one-differenth frateod of one-serveth of the

The professor could not refeate from arbibilities his gratification that, however inferior in volume.

Nothing further now remained than to such that

"Let me san," said the captain; "what is the force

pupil." The centain could not help himself; he was forced "Well then," and the professor, "I post received

you. Taking the stiruction of the earth as 1, that on Mercury is 1.15, on Verya 2 is 182 on Mars 5.

"Therefore, if a man upon the surface of the sun

"A folly buttle-field for cowards " springed Bon

"Not so tolly, Ben Zoof, on you faxey," said his

Ben Zoof vontured the remark that, as the smallross of Gellin secured to its itshabitants such an increase of strength and author, he was almost sarry that it was not a little smaller atill "Through it sould not have been very much amaller

anyhow." he added, looking slyly at the professor. "Life" erelained Rosetta "Year head is too Held already; a roll of wind would blow it away." "I must take cars of my head, then, and hold it

Umble to get the last word, the professor was about to retire, when Servadac detained him. "Parmit me to sak you one more question," he

said. "Can you tell me what is the nature of the "Yes, I can answer that. And in this matter I do not think your importinent orderly will wenture

a substance not unknown upon the earth," And tains 70 per cout, of tellurium, and 30 per cont. of gmld "

Servadae uttered an exclamation of surprise "And the average of the specific gravities of these two substances is 10, precisely the number that rep-

"A comet of gold?" eisculated the captain. "Yes: a realization of what the illustrious Maypartula has already deemed probable," replied the

"If Gallia, then, should ever become attached to the earth, might it not bring about an important revolution in all mornetary affairs?" insulted the

"No doubt about it!" said Rosette, with manifest entisfaction. "It would supply the world with about

"It would make gold about as thesp as dirt, I suppose," said Servadae The last observation, bowever, was entirely lost

"And what I wonder, is the use of all those big forures?" said Ben Zoof to his master, when next "That's just the charm of them, my good fellow,"

JUSTING SOMEWHAT CLOSE EXCEPT as to the time the comet would false

to revolve round the san, it must be confessed that all the professor's calculations had comstudies in solitude.

cording to Rosatts, the 63rd of Auril. In the course attaining at the end a distance of 197.500 010 leagues from the sun. This would have \$1,000,000 anhelice of the 15th of January, after which it

would begin ones more to approach the sun. But meanwhile, a marvelous world, never before as close within the range of human wister, was revenling Steelf. No wonder that Palmyrein Beastle out those calm, clear Gallian naghts, when the book of the firmament lay open before him, he could ravel

The electors orb that was becoming so conspicuter, the largest of all the bodies existing within the befrence of seler effection. During the owner months that had elapsed since its collision with the earth, the cornet had been certificately ammonth. ing the planet, until the distance between them was

scarcely more than 61,000,010 learner, and this would go on diminishing until the 15th of October Under these circumstances, was it perfectly certoin that no danger could norme? Was not Gallia when its pethway led it into such close proximity to this enormous planet, running a riple of boune structed within its influence? Might not that in-fluence be altogether disastrons? The professor, it revolution, had represented that he had made all proper allowances for any perturbations that would

but what if there were any errors in his calculatuces? what if there should be any elements of disturbance on which he had not recknood? Speculations of this kind became more and more frequent, and Lieutenant Procope pointed out that the danger incurred might be of a fourfuld char-

acter: first, that the comet, being irresistibly attracted, might be drawn on to the very surface of the result of being brought under that attraction. it wight be transferred into a satellite, or even a sub-satellite, of that mighty world; thirdly, that it

might be diversed into a new orbit, which would never be coincident with the collette; or lastly, its course might be so retarded that it would only reach the ecliptic too late to permit any junction with the earth. The occurrence of any one of these contincancies would be fatal to their hopes of resnice

strangely severed To Rosette, who, without family ties which he had never found leisure or inclination to contract, had no shedow of distirs to return to the senth, it would be only the front of these probabilities that ouild give him say content. Total annihilation right not accord with his views, but he would be quite outside for Gallain to must its more with research to the north, including the with the would be according to the control of the c

quite content for Gallas to mass its mark with repart of the out-thi, indifferent whother it received as a new satellite eround Jupiter, or whother it weeded its eccure through the untraversed regions of the milky way. The rest of the community, however, by no means appropriated with the professor's astitments, and the following month was a parted of considerable death and markets.

considerable death and anxiety.

On the lat of September the distance between
Galba and Jupiter was precisely the same as the
mean distance between the certh and the same on the
14th, the distance was further reduced to 25,000,
Old segues. The planet began to assume environment
dimensions, and it almost seemed as if the corrol
and aircost been defined from its objusted cettle,

and was raishing on in a straight line towards the overwhelming juninary.

The more they contourplained the character of this giventie plane, the more three become impressed with the literation of a sectous perturbation in their corn course. The discussive of Jupite in 16, the earth; its volume in 1,307 times, and its mass 300 times greater; and allowing the mean density

so only about a third of that of water (wheree it has been supposed that the superficies of Jugiter is liquid), yet its other preportions were large enough to warrant the apprehension that important disturbances might result from its procurity.

"I forget my astronomy, licutesane," said Servates. "Tell us all you can about this formidable.

The horizonant having refreshed him murcoy by reference to Humaniton's Relatin de Plaffett, of which he had a Rossian translation, and some other hocks, proceeded to recognizant that Journa – compitibes its revolution record the sun in 4,425 days, 14 hours, and 2 minutes; that it travels at the rate of dell'utiles a minute along an orbit meauring 2,676 millions of miles; and that its rotation

on Ha axis occupies only 0 hours and 55 minutes.

"His days, thes, are shorter than the sarih's days" interrupted the captain.

"Considerable" anyward the lightcoart, who

reconstruction of the first content of a point of the content of a point of the content of a point of the content of the content of a point of the content of the point compared to a point of the content of the point compared to be plant (ATS) males, bow the acts, being nearly perpendicular to the plant of its ettil, cound the sings and zights to be nearly of the same length, and the consorts to be invariable; and how the amount of light and has received by the plant is only a twenty-difficular for that received by the earth, the average distance forms the am buffer of the received by the carth, the average distance forms the am buffer of the carth the average distance forms the am buffer of the received by the carth, the average distance forms the am buffer of the carth the average distance forms the am buffer of the carth the average distance forms the am buffer of the carthy the average distance forms the am buffer of the carthy the average distance forms the am buffer of the carthy the average distance forms the authority of the carthy the average distance forms the authority of the carthy the average distance forms the authority of the carthy the average distance forms the authority of the average distance forms the authority of the carthy the average distance forms the authority of the average distance forms the authority of the average distance forms and the authority of the authority of the average distance forms and the authority of the authority of the average distance forms are appeared to the authority of the authori

the earth, the average distance from the sun hister 456,693,600 miles. "And how shout these antellites? Sensatimes, I suppose, Jupiter has the benefit of four moons all whining at once?" adds Sorrados.

Of the sabelities, Lieuteness Procope went on to say that one is rather smaller than our own moon; that another moves round its pelmany of an interval about equal to the moon's distance from ourselves; but that they all revolve in confidently less time, the feet taken only I day. 18 buts, 27 min-

at the killer's, 7 days, 8 literay, 32 minutes; while the largest of all takes to 14 days, 16 hours, 25 minutes to the largest of all takes to 14 days, 16 hours, 25 minutes are a datasers of 1,102,020 miles.

"They have been sealested into the service of actions," and Procept. "It is by bear movements of actions," and Procept. "It is by bear movements of actions," and Procept. "It is by bear movements, or, they have been made available for the determination of the service of terrestation legislates."

utes; the second takes 3 days, 15 hours, 14 minutes;

tion of terrestrial longitudes."

"It must be a wonderful eight," said the captur.

"Xe," answered Process. "I often think Jupiter is like a productors cook, with four house."

is like a predigious clock with four heads."
"I only hope that we are not destined to make a
fifth hand," neawered Servades.
Such was the style of the conversation that was

ntin bing," nesswered personals.
Such was the style of the conversation that was
day by day reiterated during the whole south of
suspense. Whitever topic might be sharted, it
sectord non-to settly dear upon the hard a trace of
sectord non-to-settly dear upon such threatening aswell become upon them with such threatening as"The more results that these planets are from the
sun" aid. Process. "the nary wemenble and air.

situated \$4,0471,000 miter from the zx, leased \$4,0471,000 miter from the size attacking, thousand of millions of terms the sales attacking, thousand of million of the size o

Servaine listened attentively. He was at a less what to say, and the only roply he made to the re-cital of this nevel theory was to the effect that, if it were true, he would prefer bring captured by Marcany than by Japiter, for Mercury, being as much the yearner, weald probably prove the less immentify and californiles imater.

It was on the lat of September that the course had crossed the orbit of Juppter, and on the lat of Orbelev the two holds: were adjusted to be at their markinum apparation. No direct shock, however, could be apparationable if the demonstration was sufficiently contricted that the orbit of Gallia did not fellently contricted that the orbit of Gallia did not being inclined at any angle of 2.1 15 to the orbit of the earth, with which that of Gallia was, no doubt,

As the mosth of Beptember verged towards its does, Jupiter began to wear an aspect that must have sarited the admiration of the most igneeant er the most indifferent observer. Its asilient points to were illumined with news and radical tists, and mingled sortness and intensity upon Gaila, so that

Who could wonder that Rosetts, enthusiast as he is was, should be irremovable from his observators? Who could expect otherwise than that, with the prospect before him of viewing the grant among placeds, ten times nearer than any mortal over had Macowhole on Juniter over large, the sun grew

From its increased remoteness the diameter of the sun's disc was dustinished to h' 46" And what increased interest began to be associa-

Although it is asknowledged that they are yet ordinarily visible on earth without the aid of a

powers of variety, been been able to identify them distinguish them one from the other as to describe

Rosette, in his phoerbirar interest for the glowing giories of the plazet, seemed to be beguiled into comparative forestfulness of the charms of his fesser could quite allay the general apprehension that some parious collision might be impending.

Time round on There was nothing to instify an probension. The question was continually being "Our friend the professor," said Servader, "is not likely to tell us very much; but we may feel loas in the dark, if he thought we were not guing

he could have would be to inform us that we had "I trout from my very soul," said the essent, "that

"The more I see of him, and the more I listen to him," replied Servedze, "the more I become con-vinced that his calculations are based on a selid

Ben Zoof here interrupted the conversation, "I have comething on my mind," he cald. "Something on your mind? Out with 21," said

"That telescope!" said the orderly; "It strikes me pointed up at yonder hig sun is bringing it down

"Laurh, captain, if you like; but I feel disposed

"Ren Zoof." said Survedte, his languter exchanged for a look of stary displeasure, "tough that

"I am recentur burn" said Sarvador.

Ben Zoof knew what his master meant, and to The interval between the comet and Jupiter was, by the let of October, reduced to 43,000,000 miles.

The physiology of beits and apots altho was bein an astronomical congress on the carth, he would or no they owed their existence to the external ac-

his brother assesses to any great degree as to the ever rank as one of the most mornificent amount As the cerest approached the reitical point of its

The bolts all parallel to Jupiter's equator were very

dusting in their markings. These immediately

those foward the poles were alternately dark and

ficies, between edge and edge, being interpely bright the balts themselves were construelly

carrier it carried by deviced that there was an unacknowledged consciousness of alarm. Mutually recaptain were secretly drawn together by the prosweet of a common damper; and as their voture to the earth appeared to them to become more and year indution and triad to embrace the wider philosophy that arknowledges the credibility of a But no philosophy could be proof against the

their bones, were set upon their natural home; no them to give up their fund and sanguine antisingtion that once again they were to come in contact

"Only let us eccape Japitor," said Lieutement Procope, repeatedly, "and we are free from

"But would not Saturn lie about?" saked Serva-"No!" said Processe; "the orbit of Saturn in rerecta, and does not some athwart our nath. Juniter

is our sole hindrance. Of Jupiter we must say, as William Tell said. Once through the oreinous mass and all is well." The 18th of October came, the date of the magnest

approximation of the second to the planet. They wors only 31,000,000 miles spect. What would now transpire? Would Gallia be diverted from its proper way? or would it hold the course that the astronomer had producted t

Early next mernity the captain ventured to take The professor was in the worst of tempera

to sudjoute the course which events had taken. The comet was pursuing an unaltered way.

The astronomer, overset in his propagationtions

sught to have been the most proud and contented of

his comet was destined to be so translest, and that it must insvitably once again come into collision with the earth.

CHAPTER IX charge. Mutual interest and recessity thus een-

MARKET PROCES IN GALLIA A LL right!" said Servader, convinced by the professor's ill humor that the danger was mart; "to doubt we are in for a two years"

"And we shall see Montmartre again!" excluteed

To use a professl expression, they had safely influence of Juniter's attenction, the count had been recarded for a alogic bour, in that hour the earth mould have abroady fravaled 2.500.660 miles from the mount where contact would ensue, and many con-

On the lat of November Gellin and Juniter were weeks to the 16th of January, when the comet would hards to reaccurach the are. Though light and their terrestrial intensity, so that a nerretual twilight account to have cettled over Golffe, not the population felt cheared even by the little that was left, and brooms on by the home that they about to the great huminary, of which the termerature has been estimated as not less than 5,050,005

Of the awaisty andered during the lost two months lease Hakkabut had known pathing. Since the day he had done his burky stroke of business he had rever left the terior and offer Ben Zoof on the following day, had returned the steelyard reinute's consurration which Ren Zoof had held with usual, said no attention to the remark, and only which Hakkahut persisted in leading. Ben Zoof

The time came, however, when various eircumstences prompted him to think he must renew his intercourse with the inhabitants of the Hive. Some of his goods were beginning to epoff, and he felt the necessity of turning them into maney, if he searchy of his commodities would secure very high

It happened, just about this same time, that Ben would soon be rusning sheet, and that their stock of coffee, surar, and tobacco would want remissishing. Servadac's mind, of course, turned to the cargo on board the House, and he resolved, according to his promise, to apply to the Jew and become a purover the received of first solling a vertice of his cargo for all the paper maney thay good give ham; want these. Yes, they should have these, too, for got back again to the earth; bills from his Excolleger the governor would be good belle; anyhow there would be the shorter. By the God of

Although he did not know it, he was proposing to follow the prortice of the Gouls of chi, who ad-

SETT Halvalus hesitated to make the first advance, and it was accordingly with much satisfaction that he halled Cardein Servedge's ameanance

"Hakinbut," said the captain, plunging without some tobacco, and other things. I have some towick to order them, to settle the price, and to-morrow "Merciful heavens?" the Jew bean to whime but

"None of that miserable howling! Rusiness! I am come to buy your goods. I shall pay for them,"
"Ah yes, your Excellency," whispered the Jew. his value trembling like a street horour. "Don't impose on ma. I am poor; I am nearly ruined al-

"Cons your west-had whiteins?" oried Servedon "Ready money?" saled Hakkuhut. "Yea, ready money. Wast makes you ask?" said

the captain, gurious to bear what the Jew would "Well, you see-you see, your Excellency," atammered out the Jew. "to give gredit to one wealful -I meso bosorable, and his lordship the count is bottorable; but maybe—maybe——"
"Well?" said Servador, walting, but toolined to

kick the old rancel out of his sight. "I chouldn't like to give credit," he repeated, "I have not noked for credit. I have told you

"Very good, your Excellency. But how will you "Far you? Why, we shall pay you in pull and silver and corper, while our money lasts, and when

"Oh, no paper, no paper!" greated out the Jew.

"Why not? Surely you can trust the banks of England, France, and Bussis."

"Ah no! I must have cold. Nothing as as fe so gold." "Well then," axid the captain, not wanting to love his temper, "you shall have it your own way; we have alsolv of gold for the present. We will leave should come again the next fay, was about to quit

"One moment, your Excellency," said Hakkabut, sidling up with a hyporritical smile; "I suppose I

"You will of owere, charge ordinary pricasproper market prices; European prices, I mean."
"Merciful heavens!" shrieled the old man, "you

rob me of my rights; you defread me of my rob me of my rights; you defraud me of my privilege. The manopoly of the market belongs to me. It is the custom; it is my right; it is my

Servedee made him understand that he had no intention of sweeving from his destaice.
"Mereiful beavener" arain howled the Jess. "it

is shear rule. The time of menopoly is the time for profit; it is the time for speculation." "The very thone, Heldesleet, that I am appleas to seem to ferret our rights; you are forgetting that

If I piesus, I can confiscate all your earge for the common use. You cught to think rourself lucky in potting any price at all. Re contented with Rorn. pean prices; you will get no more. I am not prime All the rest of the day the Jew was mustoring

all out of them; be would make European prices True to his word, the captain next morning arrived at the tartan. He was accommunied by Bur Zoof and two Russian suiters. "Good-recenter, ald

ly business with you, you know," was Ben Zoef's "What do you want to day?" asked the Jaw.

"To-day we want coffee, and we want sugar, and we want tobacco. We must have ten kilograms of each. Take care they are all good; all first rate. I am commissariat effect, and I am responsible."

carron," said Hakkahut, "So I am, on state occasions; but to-day, I tell you. I am superintendent of the commissariet de-

Heldsabut hereupon descended into the hold of ly fastoned by strips of paper, labeled with the

"Ten kilograms of tobacco at twelve france a

Ben Zoof was on the point of laying down the "Let us just see whether the weight is correct." Hakkabut pointed out that the weight was duly registered on overy pecket, and that the packets had never been unfastened. The captain, however, had The index regretance cells 130 orange "You see. Hekkelpit I was right. I was nerfeetly furtified in having your goods put to the

"But-but your Excellence-" stemmend out the bewildered man. "You will of course, make up the defeloner," the

captain continued, not noticing the interruption.

"Come, come, old Colaphas, do you hear? You are to make up the deficiency," exclaimed Ben Zoof. "Ah, yes, yes; but----" The unfortunate Isrnollie tried hard to speak but

his arisation provented him. He understood well snough the cause of the phonomenon, but he was "Come, I say, old Jededuch, you are a long while

As soon as he recovered his more of articulation. lease began to pour out a modley of lamentations and petitions for mercy. The cardain was insperable, "Very scery, you know, Haltlottut, It is not roy fault that the pecket is short weight; but I

"A bargain is a bargain," said Servidee. must complete your contract." And, meaning and grouning, the miserable mun

by his own scale. He had to repeat the process with the super and coffee; for every kilogram he had to weigh seven. Ben Zoof and the Russians jeered him most unmercifully. "I say, old Mordecol, wouldn't you rather gi your goods away, then sell those at this rate?

would." "I say, old Pilate, a menopoly isn't always a good thing, is it?

"I say, old Sepharvaim, what a fourishing trade you're driving ! Meanwhile neventy kilograms of each of the

articles required were weighed, and the Jew for each seventy had to take the price of tax. All along Captain Servedae had been acting only sotion with him into an occasion for a lot of fun-But the joke at an end he took care that the Jow was properly paid all his legitimate due.

CHAPTER X ESB INTO SPACE

MONTH passed away, "Gallia continued its so far removed from the ordinary influence After all, they were but making a varage-a

170 strange wit a transfert, augmented through sales volcano continued its veguiar and unthonoung discalculations were correct—and why should they be darkted 2-there little moved was destined after a On the 15th of December Gallie was 276 per 600

two years' absence, once more to return "to part." but with the good prospect before them of over agoin standing on terrestrial shares, they had nothcomfortable as they could in their prepent quarters.

contain, the count, nor the Houtemant felt under any of winter, in the cultivation or the preservation of their agreentural resources. Newertheless than

From after the foreign-sofet in their career, then the west fast sentual of surress they would be aboves of Gourbi Island, where they would have to

four rooths or theresbouts, they would had the would their havmaking and their corn baryest have anain, like a swarm of bees, to retire to their semitrooledyte existence in the cells of Nina's Hive. expedition possibly result in the discovery of a vein turned to account in warming some srection which they might home to put up? A prolonged existence

be all very well for a man like Professor Rosette, shorted in astronomical studies, it was ill suited longer period than was absolutely indispersable One contingency there was, almost too terrible to be taken tota account. Was it not toobs expected that the time might come when the internal free of lava would consequently cease to first! Why should Gallia be exempt from the destiny that

should it not roll onwards, like the moon, a dark cold In the event of such a concetted of the volcanie equation, whilst the cornet was still at no great a to find a substitute for what abuse bud second to render life endurable at a temperature of 69° below zero. Happily, however, there was at present no symptom of the subsidence of the lava's stream; the

becomes from the wan, and, as it was approximately some 11,000,000 or 12,000,000 longues during the much Arother world was new hemoning a estispirmous object in the heavens, and Paimyrin Ronotte, after reiniging in an approach peacer to Innites than any other mortal man had save at-

be less than 415,000,000 miles; but oven this distonce, although ton great to affort the cornel's very reso more than had been duly recknoed on, was conalderably shorter than what had over reparated To got any information about the planet from Re-

by night and by day he never stersed to quit his soly from the few astronomical works that hap-Ren Zoof, when he was made aware that the earth mould be invisible to the nabul are from the surface of Satura, declared that he then, for his should werein to slobt, and it was his great con-

sette appeared quite impossible. Although squalls

vertahed from his man, At this date Sators was revolving at a distance of 420,000,000 miles from Gallia, and cornequently 874.440.000 miles from the sun, receiving only a hundredth part of the light and hest which that luminary bestown upon the earth. On consulting Satura completes its revolution round the sun in a in their underground quarters was felt to be paried of 29 years and 107 days, traveling at the monotonous and depressing, and although it might rate of more than 21,600 miles an hour sleng an orbit messaring 5,690 millions of miles in length, Its elecumference is about 220,000 miles; its superficies, 144,000 millions of square miles; its valums, 143,846 millions of cable miles. Satura is The times larger than the earth, consequently it is smaller than Jupiter; in mass it is only to times

less than that of water. It revolves on its axis in 10 hours 29 minutes, and 2ts own year consists of seemed to await every other heavenly body? Why inclination of its axis to the plane of its orbot, are Although the light received from the oun is connaretively feeble, the nights upon Saturn must be Right satalistes __ Mirras. Receipter.

Tethys, Direc, Rhon, Titan, Hyperico, and Japetus -excompany the planet; Mimas, the nearest to its primary, rotating on its axis in \$2% hours, and revolving at a distance of only 120,800 miles, whilst Janetus, the most remote, occupies 79 days in its

tions aspecthing in this way-

Hereshel as starcely 100 miles in thickness, result which the imperment, dark though transparent, fr 2.625 rolles to breadth; the intermediate one, which

broad; and the outer, of a dusky hue, being 8,040

Such they rend, is the general outline of this evolved, and that this remarkable ring-aratem is a self developed, and which from some unknown

autailites, some with bright discs at their full, by the encircling rings, the aspect of the heavens from the surface of Satura must be as impressive

The Gallians indeed, were mable to realize all the marvels of this stronge world. After all, they were practically a thousand times further off than the great astronomers were able to approach by manns of their wlant telescones. But they did not complain; their little comet, they knew, was far sufer where it was; for better out of the reach of on attraction which, by affecting their nath, might

The distances of several of the brightest of the fixed stars have been estimated. Assumed others, millions of millions; the Pole star, 282 millions of miles, a figure represented by no less than fifteen

The hard numerical statement of these encourses

their purpose. They have made their researchs. "Sippose," they say, "an charryer endougd with and infinite length of vision; suppose him stationed on the surface of Carmella; looking thoses towards had happened asventy years providently; transport viewing the terrestrial sphere of 720 years back; carry him away farther still, to a star so remate

that it requires accountling few than rejectors comness of the birth and death of Christ; corresp bire (fer appea is infinite), and he shall be a spectator of the Creation of the spheres. History is thus

Who can altogether be asteriaked that Palmyria

search, should have been conscious of a longing for yet wider travel through the atderval proverce? stars, fixed and irremovable in name, are all of there in motion, and Gallia might have followed them in their untracked way.

But Gallia had a narrow destiny. She was not star clusters, some of which have been entirely, others partially resolved; nor was she to lose herhitherto the grass of the most powerful refectors. the solar system, nor to travel out of sight of the . terrestrial sphere. Her orbit was efreumscribed to little over 1.500 millions of miles; and in comparison

with the infinite apace beyond, this was a mere CHAPTER XI

A FETE DAY THE temperature continued to decrease; the reseased thermometer, which freezes at 42" below zero, was no longer of service, and the

spirit thermometer of the Deleves had been brought into use. This new registered 63" below In the creek, where the two vestels had been

the proceationary measure of bevelling, was going on alowly but irresistibly, and the tarten was unwhile the schooner, as being lighter, bad been raised

So irrestatible was this gradual process of clevation, so utterly defying all human power to arrest, to the safety of his yacht. With the exception of the various and the mosts, everything had been miraele could prevent the bull from below doshed to

over his all-precions careo, though continually in-

There was, however, a stronger will then Issue Hakkalut's, Although to one of all the community cared at all for the sufety of the Joy, they cared poor much for the security of his caree, and when Beryadec found that nothing would induce the old room to abandon his present question voluntarily. he very seen adopted measures of coercion that were

"Stop where you like, Hakkabut," and the captule to make sure that your cargo is taken care of.

the part of the Jaw, were of the alightest avail. Forthwith, on the 20th of December, the reserved of

the goods commenced Both Speciards and Russians were all accepted

serticle of metal, which, in the low state of the temperature, would inevitably have taken all the skin off their hands, as much as if it had been redwithout accident of any kind; and when the stores

a great auxiety Gaptain Servadac save old Isaac full permission to take up his residence amongst the rest of the community, promised him the entire control over his own property, and altogether showed him so much

omesideration that, but for his unbounded respect for his master. Ben Zoof would have liked to repri-Although Hakkahut slamored most vehomently

about his goods being carried off "against his will property transferred to a place of safety, and delighted, moreover, to know that the transport had been effected without a farthing of expense to himself. As seen, then, as he formd the tartan empty, mode him, and very soon made his way over to the questers in the callery where his recchardise had

ecology. Cornected the all intercourse between himself and the rest of the inhabitants was entirely confined to business transactions, when occasion re-

The lat of January was drawing near, the confe arance of shirty-my human beings from the society of their fellowmen. Hitherto not one of them was missing. The unvarying columns of the climate. notwithstanding the cold, had tended to magnifuln them in good health, and there seemed no reason to doubt that, when Gellia returned to the earth, the total of its little momainties would still be core-

guirad that some purchase should be made from his gold of the colony was gradually finding its way to

The 1st of January, it is true, was not properly

povertheless, was very anxious to how it observed "I do not think," he said to Goost Timasokoff and Lieutenant Process, "that we could to allow our

people to long their interest in the world to which we are all hoping to return; and how our we cornect the hend that ought to unite us, better than he calcurating, in common with our fellow-creatures sentiments of all? Besides," he added, amiliar, "I expect that Gallia, although invisible inst of present talenomes of our terrestrial friends, and I have no

both havelenteres are full of accounts detailing the Well muffed up as they were in furs, they were recomments of the new cornet." "True," asserted the count. "I can cults imagine

that we are occasioning no small excitement in all "Av. more than that," said the lieutenant; "our

Gallia in certain to be far more than a more object of scientific interest or curiosity. Why should we doubt that the elements of a cornet which has once of the Hive, Lieutenant Procone avowed that he been securately calculated? What our friend the the earth, where, beyond a question, all magnet

> The lieutenant's conjectures were so reasonable that they commanded assent. Gallia could scarcely be otherwise than an object of terror to the inhabitants of the earth, who could be no moone be certain that a second rellision would be comparatively so harmiess as the first. Even to the Gulffare

themselves, much as they looked forward to the event, the prospect was not unmixed with alarm. vice by which it was likely the impetus of the shock

Christmas arrived, and was marked by spropriate with the exception of the Jew, who made a point of secleding himself more obstinately than ever in

To Ben Zoof the last week of the year was full of builds. The organismosts for the New Year

fitte were entrusted to him, and he was arcticus, in make the program for the great day as attractive

It was a matter of debate that night whether was econolic block that he much sure to come, but,

distike to visitors, he altered his mind, and sent yearny Pable on to the observatory with a formal company at the New Year's fitte. Public was seen back, bringing to answer except

that the professor had told him that "to-day wee lit of July." Consequently, Servadae and the court task it for

An hour ofter sureries on New Year's Day. Frenchmen, Russiana, Speciards, and little Nine, as on years before had been soon in Callie. Ben Yoof and the Russian cook had guite surpassed thereselves. The wince, part of the Debryma's stores were of excellent quality. Those of the vintages of France and Snain were drunk in togating their respective countries, and even Russia was benered in a similar way by magne of a few bottles of knemmel. The company was more than contental_it was as fortal as Ben Zeof could desire; and the ringing

"A happy return to our Mother Barth," must fairly have startled the professor in the silence of his ob-The discover over, there still remained three hears of daybold. The um was approaching the they were very uplike what had produced the wines

starting upon an excursion that would last over sightfall, to envelop themselves in the thickest of

Full of spirits, the party left the Hive, and chattering and singing as they want, made their way down to the frozen shore, where they fastered on their sinter. Once upon the ice, everyone followed his own fancy, and some singly, some in groups, Servadae, the count, and the lieutenant were genyou masters of their novel exercise, wendered factly and errocfully hither and thither, occasionsaffers, following a northern custom, skated in file. possed under their right arms, and in this way they described a treekway of singular regularity. two children, blithe as birds, flitted about, now selves, but always fall of life and spirit. As for

Ren Zoof, he was here, there, and everywhere, his mearturbable good temper ensuring him a smile of whole party had soon exceeded the line that made the cliffs were no larger to be seen; and at last, the

obliged to aton to recover their breath, but, fearful of frast-bite they alread insteatly recovered their exercise, and proceeded nearly as for as Gourbi Island before they thought about retracing their But night was coming on, and the ann was al-

the residents on Gallia were by this time well acwas very remarkable. There was not a cloud nor a

selerand by the effect of refraction, its circumference sharrow defraed against the sky, sauk abrustly, Refers the daylight ended, Captain Servador had

captioned the party to collect themselves betimes after. We have come out like a party of skirmish-

The right would be dark; their more was in conand give samething of that "note radiance" which Irregulately after surged the torches were

the rapid motion of their bearers, had much the later, the volcage ameaned like a dim shadow on

larid glare upon the surrounding gloom. In time the ened shadows protenguely on the surface of the Later still, half an hour or more afterwards, the torches were all but dying out. The shore was close at hand. All at once, Ben Zeof uttered a startled

ery, and pointed with bowildered excitement towards the mountain. Involuntarily, one and all, then plowed their hools into the ice and come to a halt. enery lin. The valeure was extinguished? The stream of burning lava had suddenly council to flaw! Speechless with amazement, they stood still for some moments. There was not one of them that did not realise, more or less, how critical was their needtion. The sole serves of the heat that had smalled them to brave the rigor of the cold and failed there! death, in the ermeliest of all shapes, seemed staring

them in the face-death from cold! Mearwhile, the last torch bud flickered cut. "Forward!" cried Servadae, fronts

At the word of command they advenced to the shere; clambered with no little difficulty up the slippery rocks; gained the mouth of the gallery;

groped their way into the courses bull How drears! how shill it occupal! Th flary entarnet no larger spread its glowing covering over the mouth of the grotto. Ligaterant Penearo loaned through the enerture. The need hitherto kept fluid by its prectimity to the lava, was

CHAPTER XII

Wilk whole injult was spart in operationing, with planty fortherologing, upon the chauses of the high power fortherologing, upon the chauses of the first warshed to the outer air, were register following the control of the control

escope to retreat.

Here they found the prefessor, who, shartled by
the audices only, had been fain to make a precipitate
outered from als observatory. Now would have been
the opportunity to deceased of the enhanced where
the opportunity to deceased of the enhanced where
the opportunity to decease of the text of the contraction of the opportunity of the contraction of the opportunity of the conpart of the opportunity of the opportunity of the opporment of descondart to be able to grantify his love

Next movelar, Strevdor than addressed in people. My french corest from each was not ing to fast, Our provisions are ample—more than ing to fast, Our provisions are ample—more than the first world four; our preserved must is already ecologic; we shall be able to depende with all ready ecologic; we shall be able to depende with all ready ecologic; we shall be able to depende with all the fire cooking purposes. All that we require is relieded in the bowle of this monodate on which we reclibed not that the warrant we require is relieded in the bowle of this monodate on which we reclibed not we shall obtain the world with its infollowable we what the first warrant with its infollowable we what the first warrant with its infollowable we what the first warrant with its infollowable we what debtas the world within its infollowable we

His tens, quite as much as his words, restered contained to meany of his people, who were already yadding to a feeling of degraft. The count and the liculcount fervently, but silently, grauped his hand, "Nua," said the captain, "you will not be afraid

to go down to the lower depths of the mountain, will you?"
"Not if Palto goes," replied the chill.
"Oh yes, of course, Palto will go. You are not

the bay.

"Anywhere with you, your Excellency," was the
boy's prompt reply.

And cartain it was that no time must be leet is
pretertains below the hourt of the volumo; sireads

pearating stays the heart of the westling lawning the most protected of the many vanishations of Kimis Mire were being persuade by a cold that was the pearating of the pearating of the cold that was to pet access to the cratch by the author's relevitive of the mountain-side; they were far too steep under the collegery to afford a feetfold. It must of necessity be colored from the interior. Listatement Presept secondaring undertook the task of exploring all the galleries, and was soon able to report that has had showed even which had overly reason to believe abottled upon the entrust funced. He reason for conting to this conclusion was that the calcerto emitted by the foliage supers of the helium entrust to be seeing, as it weep, out of the tallatium, which had been demonstrated already to be a considered of band. Only ascored in punction through this root fee seein or eight yards, and the incottant of the off deed the tallatium is may would be recottant of the off deed the thin way would be

operator has the cut university to convening winning to the free the free three to the Resident sulfors were introduced by all to work. Takes former experiences that download them that species and post-axes were of no avail, and their not recourse was the proceed by shading with grangepoider. However stiffficially the operation might be carried on, it much that the control of th

"The thin is our copen, and drine get to use depths of the mountain, our little colony is showned," said Couri Transchoff,
"That speech is not like yourself," sanwered Servedue, smilling, "What has become of the faith

as the emerature. The court shock his hand, as if it despair, and sald, solly, "The limit that has hithered been outstretched to help occurs must to be withinteness." It was sold to help occurs must to be withinteness." It was sold to help occurs must be made to endournment. The sold with the same proposed of endournment. The course of the control of the course of sold has been that the countrol of the cropsion is only partial; the interned five is not all extinct. All fix not over well. It is no good to a feet that the course is sold of the course of the

and a proper deposit of the constraint of the co

probable that a fresh outbit had been opened in some other part of the surface, spil that the empties matter had been directed into the new channel. But at present his business was to procedure his labora so that a retreat night be immediately offented from their new unicastic position. Restless and suffund, Professor Resette, if he

too any interest in those discussions, containly their no share in them. He had bound his belongs no no share in them. He had bound his belongs and and there at freezeed interests, by shade and but down, he would reclasor to ecculous his observations; but the intense seed perpetually correpted him to death; not would literally have been remove to death. No secure, however, did he find himself officed to retreat from his study of the haveaus, thus he would level neverwhelming everybeely about them has would been overwhelming everybeely about them has would been overwhelming everybeely about

the process of boring was completed, and the liouterant could hear that fragments of the blasted rock, as the sullers elsared them away with their spasses, were rolling into the found of the erater. He noticed, too, that they did not fail perpendicularly, but somed to slike shoup, from which be inhad therefore reason to have that a descent would Larger and larger grew the origin; at length it

torch, mushed humself through it, followed by the Neutonant and Servadas. Proporte's contecture that the sides slanted at the angle of about four of the atmosphere of the earth, and beneath the cooling of ashes with which they were covered.

worn away by the action of the lava, and those af-"Rather a lost stair-case!" said Box Zoof, so they

In about half an hour, proceeding in a southerby covations that at first eight had all the armearance could always see their extreme limits, and it was

rendered the Hive above so commodisus a residence. satisfied with such accommodation as they could gut, provided it was warm. Cartain Servider was oture were to a certain extent realized. The lower they went, the greater was the diminution in the restrial mines. In this case it was a volcano, not a colliery, that was the object of exploration, and become extinct. Although the lave, from some unplacely it existed nomewhere in an incandecemt

Lighterent Procoss had brought in his hand a approid harometer, by means of which he could esti-

"Rix degrees?" said Servades; "that will not suit un. At this low temperature we could not survive

the winter. We must try desper down. I only hope There was, however, nothing to fear on the score of ventilation. The great current of air that rushed

The descent was continued for about another three hundred feet, which brought the explorers to

quarters. Here the thermometer registered 12' C. above zero-a temperature which, if only it were permanent, was all they wanted. There was no advariage in proceeding any further along the lava-

that indicated that they were at no great distance "Quite near cough for me!" exclaimed Ben Zoof. "Those who are chilly are welcome to so as more After through stee. directions, the explerers seated theresolves on a jutting well, and began to debate whether it was neve-

ticable for the colory to reake an abode in those lower deaths of the recurtain. The reconced, it sower depend of the resolution. The prespect, it true, widened out into a cavern sufficiently large. were a few ledges in the reck that would serve as must be their distanceson, drawing-room, and dona warren, they were reduced to the existence of

males, with the difference that they could not like The cayers, however, was quite canable of house stores were several burrels of oil and a considerable when required for cooking purposes. Moreover, it would be unaccessary for them to confine there. sales entirely to the machiner of their electors residence; well wranted up, there would be nothing to the Hive and to the sea-shere. A surnly of the coast, and it would be necessary to arrange that correspond in turn should perform this office on vi-

would be no sinerere to clamber up the sides of the rester for 900 feet, and descend the same distance with a heaty burden. But the emergency was great, and it was neverly

thousands who annually winter in Arctic regions. ments of the Hudson's Bay Company, such appartes an remarate cables or elecutor-chambers are next thought of; one large agartment, wall heated and

vestilated, with as few corners as possible, is considered far more healthy; and on board ship the entire bold, and in forts a single floor, is approprinted to this nursees. The recollection of this fact served to reconcile them, in a great degree, to the

Having remounted the ascent, they made the recommunity, who received the tidings with a sense of relief, and cordially accupted the asheme of the

The first sten was to dear the carreer of tie accumulation of seles, and then the labor of removal with greater rest. The four of helpy to a cortainty frozen to death if they remained where they were, was a stimulus that made everyone put forth all his coursies. Reds. furniture, ecololog utenalls-first the stores of the Dobryse, then the cargo of the tartan-all were carried down with the creatout alacrity, and the diminished weight combined with the downhill route to make the labor proceed with Although Professor Brastie yielded to the pras-

ground; and as it was undersuble that it would core

description is mentaltic. Never, in the whole unikept up an uncoding wail; but manawhile he kent considerately allowed the whole carve to be de-

Jew was permitted to keep a watch as vigitant as he By the 10th the removal was accomplished, Resand at all overta, from the expansion to a narribus temperature of 60° below zero, the community was installed in its new home. The large cave was terns, aumended at intervals along the acclivity that led to their deserted quarters above, guve a

maind minturescences to the some that might vis with any of the graphic descriptions of the "Arsh-"How do you like this, Nima!" said Ben Zood

"Vo bene?" renlied the child. "We are only living in the cellers instead of times the ground floor." "We will try and make ourselves comfortable,"

"Oh yes, we will be happy here," rejoined the child: "it is nice and warm," Although they were as especial as they could to situation without distrust. When alone, they would

frequently ask each other what would become of adding, or if some unexpected perturbation about an infedicately prolonged residence in their grim abode. It was scarcely libely that the cornet could aurair the fuel of which ere long they would be in urgant reed. Who could expect to find coal in the ancient forests minoralised by the lapse of agent

Would not the lava-cipders exhamed from the ax-"Keep up your spirits, my friends," said Serva-Let us home that as fresh difficulties arise, fresh "True," said the count; "It is an old saying that

'Necessity is the mother of invention,' Besides, I same hope. As the reason for his opinion he alleged probably of cuits recent origin, because the cometstrangement, and that organization on overer multi

"Most likely you are right," realise the country "and so far from dreading a future of the internal posed to a mare terrible columity still?

"The columity of the gruption breaking out and

"Heavens?" cried the castain, "we will not think of that." "The outbreak may hoppen again," said the Ben-

tenant, calmiy; "but it will be our fault, our lack of vigilance, if we are taken by surprise." And so the onversation drouped. The 19th of January dawned; and the count was

ENCEFORTH, then, with a velocity ever in-creasing, Gallin would re-approach the sun-Except the thirteen Englishmen who had And with those Englishmen, how had it fored? "Far better than with correlate" was the south ment that would have been universally accepted in Nirg's Him. And there was every reason to coninclude that an it was The party of Columbia these

all agreed, would not. like themselves, have been their armery of heat; they, no doubt, had had abunensempte, with its substantial walls, they would find ample shelter from the rigge of the cold. The time have in contentment; and Colone) Murrhy and Major Offsbart would have had leisure more than sufficient for solving the most abstrace wroblems of the chess-board. All of them, too, would be happy in the confidence that when the time should come, so manfelly to their post.

It did, indeed, more than once occur to the minds both of Servadue and Mr. friends that, if their connight, as a last reacures, betake themselves to O'lbraltar, and there seek a refure: but their ferrors reception had not been of the kindest, and they were little disposed to renew an acquaintanceable that pected to most with any inharpitable relegit. Fur whatever their faults, would be the last to abandon their fellow-greatures in the hour of distress. urgent than it had hitherto proved, they resolved to endeaver to remain in their present quarters. Uniginal number, but to undertake so long a journey

across that unabeltered expanse of ice could scarce-

However great was the desire to find a retreat for would persente in the use of his telescope till he was all but paralyzed. But what he felt more than was found necessary to simplifier almost all the munity from Nina's Hive. To hore stabled them all or intrusion.

in the cavern below would have been cuite imleries would only have been to abandon them to a

Naturally the captain and Ben Zoof were most

Galette were conducted down the crater, where they Birds, subsisting only on scraps thrown out to

them did not come to follow the negulation in its migration, and so numerous did they become that multitudes of them had repeatedly to be destroyed. monotony. There seemed to creep over everyone a which Servades, the count, and the lieutenant did

plied; and Russians and Spenlards, day after day, might be seen gathered round the large table, giving Selfish and morose, Hakkshut could never be induced to be present at these social natherious. He corner, ofther in couning his accounts, or in count-

he new recognised the round sum of 150,000 france, half of which was in sterling gold; but nothing could days were passing, and that he was dealed the op-Neither did Palmyrin Rosette find leisure to take any share in the mutual intercourse. His accusation was far too absorbing for him to suffer it to be interpeared to assert the same chim of proprietorship.

at various points of the orbit; and for this purpose

where, in suite of the extreme severity of the cold, he

which he asked, that the professor was not into such to speak upon the matter that was ever uppermeet in

"I do not mean," he began timidly, "to cost the least imputation of insecuracy upon any of your calculations, but would you allow me, my deer profeator, to suggest that you should revise your coti-It is so important, you know, so all important; the participly may the expectation of reunion with the

And seeing a cloud enthering on Recette's face. "I am sure Lieutenant Procope would be only too happy to render you any assistance in the revision." "Bir," said the prefessor, briding up, "I want no ansistant; my calculations want no revision. I never

make an error. I have made my reclassive as for as Gallia is concerned. I am now making a like cotimate of the elements of Nortan." matter further, the captain casually remarked that

ore on the earth. It was about as unlucky a speech as he could possibly have made. The prof. see glared at him flercely. "Astounding, sir!" he explained, "Yes! Norice was a planet then; everything that appertained to the planet was determined; but Norica is a moon

now, And do you not think, sir, that we have a right to know as much about our moon as these terrestriple"-and he corled his fin as he spoke with a contemptuous emphasis-"know of theirs?" "I bee pardon," said the corrected contain

"Well then, never mind," replied the professor, catelob armaned; "only will you have the coordinate

"I will, as I premised, do sil I can," answered "Very good," said the professor. "No immediate

hurry; an hour hence will do. But in spite of this condespension on the part of the man of science, some hours had to clapse before his requirements; but at leaoth a little neek was held an armchair and a table, and in this the antronomer was seen enseanced to his entire autisfac-

Buried thus, nearly 900 feet below ground, the Gallians curbt to have had unbounded mental sorrey to furnish an adoquate reaction to the degreewing often elapse without any one of them seconding to

probable that no one would ever have made an of-A few excursions were made in the downward direction. The three leaders, with Ben Zoof, made

to the nature of the rock-for although it might be true enough that it contained thirty per cent. of gold, it was an valueless to them as grantte-but terranean fire still retained its activity. Satisfied upon this point, they came to the conclusion that spet had certainly broken out in another February, March, April, May, passed wearily by rest that it was little wonder that no notice was taken of the large of time. The needle seemed rather

to vegetate than to live, and their want of vigor becarried times almost alarming. The readings around bates, sustained by few, became utterly wanting in animation. The Speniards could hardly be roused to more enduring temperament, did not give way to the and the licutement all knew well enough that it was the want of air and exercise that was the cause of emionally fell a prey to the same lessitude both of bady and mind. Loan fits of drowsiness, combined with an otter aversion to food, would come over become degenerate, and that, like tertoises, they could sleep and fast till the return of summer more bravely than any of there. Flitting about, cooxing one to out, another to drink, rousing Public as

ware of her influence, they would have missed her bright presume arrely. The months glided on; how. This partial revival was probably due to the somewhat increased influence of the sun, still far, for tenant Procope had taken careful note of Resetto's monthly appoundements of the comet's progress, and wards the sun. He found that Gallin bad recrossed

entered the sone of the telescopic planets.

Gradually, but uninterruptedly, life and spirits

Zoof, in particular, roused himself with radoubled vicor, like a stant refreshed freen his slumbers. The One day an excursion was made to the above. It was still bitterly cold, but the atmosphere had look

nothing of its former stillness, and not a cloud was visible from herizon to worth. The old footraries where any change was apparent was in the little greek. Here the elevation of the ice had gone on inunlifted to a height of 150 feet, not only rendering certain destruction in the event of a thaw Isaac Hakkabut, immovable from the personal oversight of his accounty in the careers, had not no-

comparted the party, and consequently was in bliss-"A good thing the old fellow wasn't there to see," ing to himself, "to have a peacock's voice, without its Dering the wooths of July and Appast, Gallie advenced 164,000,000 leagues sloug her orbit. At night

here full upon the equator, caused an appreciable difference of 20" in the temperature. Like birds, the This spring-time, if such it may be called, had a west collywaing influence upon all. Hope and courthe sky, and every evening the earth assumed a

ervater magnitude among the fixed sters. It was distant yet, but the good was cheeringly in view. "I can't believe that yonder little speek of light contains my mountain of Montmartre," said Ben Zorf, one night, after he had been gazing long and "You will, I hope, some day find out that it does." anymered his master. "I hope so," said the orderly, without moving his eye from the distant subors. After moditating a while, he speke again. "I suppose Professor Rosette

couldn't make his comet go straight back, could he?" Ben Zeef understood the correction. "No," continued the captain; "it is not for man to

CHAPTER XIV THE PROPESSOR PERFUSCIO

NOTHER menth peoped away, and it was now September, but it was still impossible to leave September, but it was still impossible to leave the warmth of the subterranean retreat for the more alry and commodious quarters of the Hive, where "the been" would certainly have been freezn to death in their calls. It was altogether quite as much a matter of congratulation as of regret that the volcano showed no symptoms of recurring its any sudden outbreak would have been disastrous to

"A wretched time we have had for the last seven "but what a comfort little Num has been to us all!"

"Yes, indeed," reelied Servadae; "she is a sharming little creature. I hardly know how we should have got on without her." "Wast is to become of her when we arrive back at

the earth ?" "Not much fear, Ben Zoof, but that she will be

"Av. voa" assented the orderly. "You can be bor

father, and I can be ber mother." Serveded langhed, "Then you and I shall be man "We have been as good as that for a long time," observed Ben Zoof, gravely,

By the beginning of October, the temperature had intelerable. The comet's distance was scarcely three our, so that the thermometer rarely suck beyond

most daily visits to the Hive, and frequently proceeded to the shore, where they resumed their sketing exercise, rejoicing in their recovered freedom as to the results of the anticipated collision with

the earth, and wondering whether may measures could be devised for mitigating the violence of a

There was no visitor to the Hive more resular to be moved back to his former observatory, where, The result of these studies no one ventured to in-

quire; but it became generally noticed that someheard muttering in an angry tone that indicated

One day, as he was hurrying down to his study,

ture, made some casual remark about things not being mary straight. The way in which his afrance was reneived the sood orderly never divulged, but hereeferward he mountained the firm conviction that there was semething very much amiss up in the

To Servedue and his friends this continual disemistude and ill-humor on the next of the professor occasioned no little argiety. From what, they saked could his dispatisfaction arise? They could only

reclomings; and if this were so, might there not be reason to suprehend that their anticipations of coming into contact with the earth, at the autiled Day followed day, and still there was no cessation miserable of mortals. If really his calculations and perpetual perturbation. But he entered into no ex-

time, might all be faboried?

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ing haggers and distressed, and when compelled by the freet to retire, he would make his way buck to heard giving vent to his vessation. "Confound it? tion the law of universal ponsense?" And the little

away at the scanty locks which he could ill afford between the results of his computation and what he upon to say, he would have sconer insisted that there error in any of his own calculations. Assuredly, if

But this state of things was before long to come about outside the great hall of the cavors, heard the professor inside atter a loud ove. Hurrying in perfect frenzy, in which cestacy and race scemed

"What, in the name of peace, do you mean?" bawled Ben Zoof, in open-mouthed amazement. "How? What? Where?" round the bewildered

"Eureka! I say," repeated Resette; "and if you Without availing himself of this polite invitation,

rushing about like a madman, screeching and yell-"Egreka" exclaimed Servadac, "That means be has made a discovery;" and, full of anxiety, he har-

But, however creat was his desire to ascertain yet destined to be gratified. The professor kept mrt-

tering in incoherent phrance; "Rescall be shall pay for it yet. I will be even with him! Chest! Thrown we out!" But he did not vouchsafe any reply to From that day Rosette, for some reason at presout incomprehensible, quite altered his behavior to

terror. All at once he began to show a remarkable interest in the Jew and his affairs, paying several yiests to the dark little storebouse, making inquiries AMAZING STORIES

as to the state of business and expressing come solicitois about the state of the exchapter. The very lew wan taken accessful by surprise, but came to an immediate conclusion that the proference was enterpolytating between games many;

Sensor was condemplating between man analyst. It was not likelihout's bublit was to advance as foot one of the control of the

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makes the receivable of the control of the control

Found himself in considerable perplexity.

He predered the midstream property of the predered the midstream property of the predered the midstream property of all, and that be had as much right to share as anyone cleic. Accordingly, he made his way to Be 0.2604, and, in the mest aminish tone he could sawme, begged as a fixer that he would be it has been property of all, and that the could be not be could be not be made his way to Be 0.2604, and, in the mest aminish tone he could assume, begged as a fayor that he would be it has been part of collec-

The orderly shook his head dubterally.
"A pound of coaffee, aid Nathan? I can't say."
"Why not? You have some?" said lisanc.
"Oh you! phenty—a hundred kiloprama."
"Then let me have one pound. I shall be grate-

"Hang your gratitude!"
"Only one pound! You would not refuse anybody

clus."
"That's just the very point, old Samuel; if you were anybody clas, I should know very well what to do. I must refer the matter to his Excellency."
"Oh, his Excellency will do me justice."

"Perhaps you will find his justice rather too much for you." And with this consoling remark, the orderly want to seek his moster. Roseths measwhile had been listening to the conversation, and secretly rejoicing that an opportunity for which he had been watching had arrived.

versation, and secretly repoting that an opportunity for which be had been waithing bad errived. "What's the matter, Master Isaac! Have you partied with all your coffee!" he acked, in a sympathining voice, when Ben Zoo! was gons. "Ah! yee, indused," greened Habbahut, "and now I require some for my own use. In my fittle black had; I cannel live without no coffee."

"Of course you cannot," agreed the professor.
"And don't you think the governor coght to let
me have it?"
"No doubt."
"Oh. I must have coffee," said the Jew again.

"Yes; will, arven, or threadbooth transloots,"
'Yes; will, arven, or threadbooth translooth
tearmend the few with contents and
the few with contents and
the few with contents and
the few with the few regetting,
while Ben Zoof returned, "And what does his Excellingy sayr" inquired Historiahut.
"By, Nebessith, he says he shan't give you

"Why, they will weigh it with my scale, of course. There is no other balance here." And so the Jew

"Good, Master Issae; all the better for you! You

stoke, the professor familed he could datest the

cellency say?" inquired Hatchatut.
"Why, Nebemish, he says he shan't give you any."
"Merciful heavens!" began the few.
"He says he docen't mind saling you a little."
"But, by the hely city, why does he make me apy few what anylody she could have for notating."

pey for what anylody che could have for nothing?"
"As I told you before, you are not anybedy sha;
eo, come shous, You can afford to hay what you
want. We should like to see the color of your
money."
"Marciful beavens?" the old man whinad once

"Now, none of that! Yes or no? If you are going to buy, say so at ence, if not, I shall shat up shop."

Hakkahut knew well enough that the orderly was not a rean to be trified with, and said, in a tremuleux voice, "Yes, I will buy."

The professor, who had been looking on with much interest, beturyed manifest symptoms of much interest, beturyed manifest symptoms of estification. "How much do you went? What will you change for it?" asked Issae mourarduly, putting his hand rist his pocket and cilcluting his news, "Oh, we will deal gently with you. We will not raike any prefit. You shall have it for the same

price that we paid for it. Ten france a pound, you know."

The Jew baditated.

"Come now, what is the use of your hesitating?"

Your gold will have no value when you go back

"You will fail out owner day," answered Ben Zoof, atomicantly.

Hakkukut drew out a small piece of gold from his pocket, took it close under the lang, rolled it over m his heard, and pressed it to his type. "Shall you weigh me the coffee with my scale?" he noted,

in a quarvefug voice that confirmed the professor's suspicious.

"There is nothing also to weigh it with; you know that well enough, old Shachem," and Bax Zoot, The opring belong you than produced; a tray was one of the professor was then produced; a tray was one of the professor was then produced; a tray was one of the produced of the produced of the professor was then produced; a tray was one of the produced of the professor was the produced of the professor was the professor with the professor was professor with the pro

"There you are? There's your coffse, man?" Ben Zoof said.
"Are you sare?" inquired Hakkahut, poering

"Oh, I must have coffee," said the Jew again. Zoof said.
"Certainly," the professor assested. "Coffee is "Are you sare?" inquired Hakkahut, peering

fown close to the dist. "are you quite sure that the "Give at a little push, please."

"Why I" "Well, because of what?" cried the orderly, impatiently "Because I think, perhaps-I am not quite sure

-northern the scale is not quite correct. him by the threat, and was shaking him till he was

"Help! belo!" soreamed Hakkabut. "I shall be "Executi consummate rescal! thief! villain?" the

professor reiterated, and continued to shake the Jew Ben Zoof looked on and laughed, making no at-

The sound of the scuffling, however, drew the attention of Servadac, who, followed by his comwere soon parted. "What is the meaning of all

As soon as the professor had recovered his breath, bate, the rascal has chested us! His scale is wrong!

Cantain Servader looked storaly at Hakkabut. "How in this, Hakksbut? Is this a fact?" "No. no-yes-no, your Excellency, only-"

treasurer. "His weights deceive?" "Sten, stop!" interposed Servadar; "let us bear. "The scale limit It chests! It lies" roured the

"Tell me, Hakkabut, I say," repeated Servadae. The Jew only kept on stammering, "Yeo-no-l

But bandless of any interruption, the professor continued, "False weights! That confounded soring tions; they were wrong! She was out of place! Yes,

"TWhat!" orded Servadae and Process in a breath. "Yes, completely," said the professor.

"Galla out of place?" repeated Servidae, agitated with alarm. "I did not say Gallia," replied Resetts, stamping "Oh, Nerira," answered Servadee, "But what of

"Gallis, of course, is on her way to the earth. I told you so. But that Jow is a rascal!"

T was as the professor had said. From the day that Louis Hekkebut had entered upon his meaon by a system of false weight. That deceitful

chaper instead of the vendor, his spirit had grouned within him at being compelled to rosp the fronts character could be much surprised at the confession poord kilogram that he had ever sold the tran weight was only 750 grams, or just five and twenty he wanted to know. By estimating his comet at a third as week again as its proper weight, he had found that his calculations were siways at variance

spring balance had been the mainspring of his for-

But, now, besides enjoying the satisfaction of It will be could imagined that Isaze Makkabut, mercifully by those whom he had attempted to make

his dones. Ben Zoof, in particular, was never wearied of telling him how on his return to the world he would be prosocuted for using falso weights, and would cartainly become acquainted with the imade of a prison. Taus badgered, he secluded himself more than ever in his disrust hole, never venturing, except when absolutely obliged, to face the other members of the community. On the 7th of October the comet re-entered the

heen captured as a satellite, and the origin of the to the disintegration of some large planet that formeety revolved between the orbits of Mara and Juniter. By the beginning of the following month mouths remained before the colleged with the earth ly below 12" below zero, but that was far too cold to permit the alightest symptoms of a thaw. The surface of the san remained as frozen as aver, and the two vessels, high up on their iry podastals, remained unaltered in their critical position. It was about this time that the question became

to be mosted whether it would not be right to reopen some communication with the Englishmen at Githeir having been able successfully to cope with the elears of the winter; but Captain Servadec, in a way that did honor to his generality, represented that, however uncourieous might have been their former behavior, it was at least due to them that and moreover, that they should be invited to cooperate with the population of Nina's Hive, in the

event of any measures being suggested by which the shock of the approaching collision could be The court and the lieutanent both heartily con-

curred in Servaduc's sentiments of humanity and to be opened at all, no time could be so suitable as the present, while the surface of the sea presented a smooth and solid tooling. After a three should not be in, norther the yearth for the attent could be referred to the state of the state of the state of the state of the state state of the

quite unavailable. It was freit inte (with for Settern's of summer learness) and the control of summer learness and the control of summer learness and the control of summer learness are supported to the control of summer learness and the control of summer learn

mlass day would be nothing, he mad, to a practiced shater like himself. The whale journey there and back might be performed in eight days. Provided with a compass, a sufficient supply of cold man, and a spiral lamp, by which he might bell also soften, he was perfectly sure he should, without the least diffiently, accomplain an enterprise that diffined in so

exactly with his adventived spars.

Equally urgent were both the count and the Bentonian to be allowed to accompany him; may, they even affered to go instead; but Severday, expressing himself as most greatful for their consideration, declined their effer, and awared has resultain of taking so other companion than his own orderly.

Highly delighted at his master's decision, Ren

Zoof copressed his satisfaction at the prospect on wirestching his legs a but, "deduring that nothing could induce him to produce the could not be the following morning, the state of the the latest produced by the could not have the could extend the could not be appeared by the followcreatures was a leading mixture of Servador's proposed with to Glirabiar, it must be owned that an

worthy Gascon. Ben Zoof had an indling that his master was "up to some other Ettic game," when, just before starting, he asked him privately whether there was a French tricoter among the stores. "I hellove so," said the orderly.

Hove so," said the orderly.

"Then don't say a word to anyone, but fasten it
up tight in your knapsock."
Bee Zoof found the flag, and felded it up as he

was directed. Before presenting to explain the members adjustmental enough of Servicke, It is members and the second of the control of the controllers has unconnected with released by the mean, originating satisfies in the single of human mean, originating satisfies in the single of human than more a nort of resource logalit to synthety notices the spans and Court Transcolor. Though the more a nort of resource logalit to synthety notices the spans and Court Transcolor. Though recommissions of their ferrom rivoley, as competitive to the control of the second rivoley and the second resource of the second rivoley.

From companions in peril, would they not again be

award rivin! Concall it as they would, a cooless met understilly stelling over no intimacy which, though it could never be called affectioners, had been also as the could not be a factor of the country of the country of the country of the country in the country have the country have failed to ride the matches being of the country have failed to ride the matches beinged. The people was the accordance of Country to the country of the country of the country of the country of the country have failed to ride the matches being of the country have been country to the country of the country o

The project was the structuries of Courts to the French dominion. The Englishmen, rigidly essent, had continued to occupy the fragment of Gilesiland, and their claim was indiquentle. But the ideal of Courts, which before the about had commanded the opposite and of the strent, and had home accepted opposite and of the strent, and had home accepted therefore free to the first occupant who should by claim to it. To plant the trickor spon it, in the

name of Frince, was now the charithted wish of Screaker's bear.

"Who knows," be said to binself, "whether Cruis, on its return to earth, may not occupy a genale and commending attantion? Wash a proof thing it would be to have sourced the possessor to France?" Next meeting, as son as they had than their best farewall of their friends, and were likely out to Ban Ecol, who externed into the project with the greatest said, and exceeded hunderfields their their transiest said, and exceeded hunderfields fallering the

early at the prospect of sadding to the demisions of his befored courty, but of steading a maxed upon Enginad. Both travelers were warnty clad, the orderly's languack containing all the recensary provisions. The fourney was assomptified without specific incolorst, back were made at regular intervals, for the purpose of sland, by the eye was provided to the out the fourth afternoon after starting, tands to the straight course which their compass cauches.

within a few miles of Couts.

As seen as Ben Toof cought sight of the rock on the western herizon, he was all excitement. Just as if the west is a regiment going into action, he tabled wildly also "columns" and "segurest" and the property of the second o

were within a mile and a baif of the shore, when the Em Zeef, who had a very been virice, stopped suddenly, and said that he was sure he could see someathing moving on top of the inland.

"Never mind, let us haten on," said Servadae. A few minutes carried them over another mile, when

Ben Zoof stopped again.
"What is it, Ben Zoof?" asked the captain.
"It looks to me like a rase on a reak, waving his serms in the air," said the orderly.
"Thegue on it!" muttered Sarvañe; "I hope we re not too late." Assim ther word on; but soon

- "Plague on it!" muttered Servane; "I note we are not too late." Again they went on; but soon to Ben Zoof stopped for the third time. "It is a semphore, sir; I see it quite distinctly." And he was not mixthem: it had been a telegraph

And be was not mistaken; it had been a telegraph in motion that had caught his eye. "Players on RI" repeated the captain. "Tee Inte, sir, do you think?" said Ben Zoof. "Tee, Ben Zoof; if that's a telegraph—and there is no doubt of it—summbody has been before us and

OFF ON A COMET 183 erected it; and, moreover, if it is moving, there and Bultimore, the two gallant offers made use of

a cougtoons boss.

of speaking?"

must be consisted working it how."
He was keenly disappointed. Looking towards
the meth, he could distinguish Gibraliar faintly
visible in the exireme sixtance, and upon the summri of the rock both Ben Zoof and he fearied they

may be very both hen how he in it is instead they could make out another somaphore, giving signals, no doubt, in response to the one here. "Yes, it is only too clear; they have already occupled it, and established their communications," said

"And what are we to do, then?" asked Ben Zoof.
"We must pecket our chaprin, and put as good a
face on the matter as we can," replied the capitals.
"But perhaps there are only four or five Englishmen to urotest the then." said Ben Zoof, as

"But perhaps there are only four or five Englishmen to protect the place," said Ben Zoof, as it meditating an assault.
"No, no, Ben Zoof," anowered Servadac; "we must do nothing rash. We have had our warning.

and urhan-our representations can induce them to yield their position, we must resign our bops." Thus discernited, they had reached the foot of the rook, when all at cost, like a "Jackeln-the-bors," a sential started up before them with the chal-

large:
"Who goes there?"
"Francis. Vivo is France?" cried the captain.
"Hurch for England!" replied the soldiur.
By this time four other men had mode their ap-

By this time four other men had made their apparamete from the upper part of the rock.
"What do you want!" asked one of them, whom Servador remembered to have seen before at Gi-

Servador remembered to have seen before at Gihralitar.
"Can I speak to your commanding officer?" Servador inquired.
"Which're aid the man. "The officer in command

"Yes, if there is one."

"Yes, if there is one."

"I will acquaint him with your arrival," answered

In a few minutes the communing officer, attired in full uniform, was seen descending to the shore. It was ladge of Olfbant himself. Servaine could no longer entertain a doubt that the Englishmeh had forestalled him in the occupa-

tion of Cents. Provisions and Indi had evidently been occuryed thither in the best from Gibraltzbefree the saa had frozen, and a selfel cosemate, believed in the reed, the directed Majer Olirhami and his contingent ample protection from the rigor of the vertice. The ascending sends into rea slove and the reed of the contract of the reed of the still logit up; the selfice appeared to have theirs, well or what, no death, tail been a generous idee.

and the major himself, although he would accorded have been willing to allow it, was slightly aboute than before.

Being only about twelve miles distant from Glivalian, the little germion at Coute had falt itself by no means soluted in its poetice; but by fro-queet excumions accord the frozen trait, and by

open excursion access the freeze strait, and the the constant are of the bilagraph, but long the grid communication with their fullow-executymen on the other inland. Coffeed Marphy and the major had not own been forced to foreign the pleasures of the chambeard. The game that had been interrupted Capitals Servasian's former with two not yet contractions of the contract of the contract of the chambeard. The game that had been interrupted to Capitals Servasian's former with two not yet contractions of the contraction of the contracti

"To Capiain Servadae, the governor general of Gallia."
"Irideed!" sold the major, with a supercitious lold.
"Allow me to express my surprise," resumed the apption, "it sooing you instilled as commanding officer again what I have always undirected to be gould about 1. Buy I demand your claim to your

The major stood waiting for his visitor to speak. "Major Oliphent, I believe?" said Servedee, with

"Yes, air, Major Oliphant, officer in command of the parriam at Centa," was the Englishmen's reply.

"And to whom," he added, "may I have the honor

position?"
"My claim is that of first occupant."
"But do you not think that the party of Spaniards now resident with me may at some future time as-

now resident with me may at some future time assert a prior right to the proprietorship?" "I think not, Captam Servadae."
"But why not?" persisted the captain.
"Because these very Semiliria's have by formal

"Because tosse very Seniarus nave, by icomain contract, mede over Cepta, in its integrity, to the British government." Servedies ettered an exchanation of surprise. "And as the neite of that important consien,"

"And as the price of that important ossolen," continued Major Oliphant, "they have received a fair equivalent in British gold." "Ahl" cried Ben Zeof, "that accounts for that

fellow Negrets and his people having such a lot of measy."

Servaine was silent. It had become clear to his mind what had been the object of that secret visits

to Cents which he had heard of as being made by the two English effects. The arguments that be had intended to use had completely failun through; all that he had now to do was carefully to prevent any scapition of his disappointed project. "May I he allowed to ask, Captain Servadoc, to

what I am indebted for the honor of this visit!" anised Major Oliphant presently.
"I have come, Major Oliphant, in the hope of deing you and your economics a service," regular Servadae, reasing humself from his reverse.

felt himself quite independent of all services from exterior sources. "I thought major, that it was not militely you were in ignorance of the fact that both Count and

were in uncounce of the fact that both Gauta and Gibrathar have been traversing the solar regions on the surface of a counce."

The major smiled incredulously; but Servadae,

The major summer increasionary; set occurs of the collision between the country of the collision between the country and the carth, adding that, as there was the almost immediate prospect of another eccession, at had coursed to him that implied to advisable for the whole population of Gallis to unite in thing pressutionary reassures for the common wedges.

"In fact, Major Oliphent," he said in conclusion, "I am here to inquire whether you and your friends would be disposed to join us in our present quarters."

tera."

"I am obliged to you, Captain Servedoe,"
answered the major stiffly, "but we have not the

AMAZING STORIES

slightest intention of abandoning our post. We have received no government orders to that effect; "But allow me to repeat," insisted Servader, "that

to come in contact with it again in shout eight "I have no doubt." the major answered, "that

England will make every effort to recise us." Servidae felt perplexed. It was quite evident that of one avilable of what he had been saying "Then I am to understand that you are deter-

raltar?" asked Servadac, with one last effort at "Certainly: these two posts command the en-

trance of the Mediterranean. "But supposing there is no longer any Mediterransan?" retorted the captain, growing impatient. "Oh, England will always take care of that," was Major Oliphant's cool reply. "But excuse me," he

And without further purisy, followed by his sel-Servadae examine his mustache with mingled rare

"A fine piece of husiness we have made of this!" "We will make our way back at ence," realied

"Yes, the aconer the better, with our talls between our lors," relained the order)r, who this time turned as it had set out-in Ben Zoof's knamsek. On the sighth evening after starting, the travel-

in time to witness a great commotion, Palmyrin Resetts was in a furious rage. He had perfidious satellite had totally disappeared. The

velving in its proper some of the miner planets. CHAPTER XVI

N his return Servadec communicated to the A sis recum Servane communicates to the personal project, did not emocal the fact that the Spanuards, without the smallest right, had sold

Having refused to guit their nest, the Englishmon had virtually excluded themselves from any further consideration; they had had their warning,

Although it had proved that not a single creature either at Gourbi Island, Gibraltar, Coute, Madelena, the time of the first concussion, there was nothing

gald?" said the count, with a faint secent of satire. Servidae was ferred to acknowledge that nothing

"but I don't understand why such learned gentlemen as you cannot make the comet so where you "You are mistaken, Ben Zoof, about our harnwith all his learning, has not a shadow of power to

prevent the comet and the earth from knocking against each other." "Then I carnot see what is the use of all this learning," the orderly replied.

chaff, with a smile, "is to make us know our own

While this conversation had been going on, Lieupected shock, there may be a variety of dangers. If,

long his cornet also, plonged hire into an excess of Although the berrier of cool reserve was secretly scrupulously concealed any outward token of their inner feelings, and without any personal hise anplied their best energies to the discussion of the question which was of such mutual, nay, of such Servadac was the first to speak. "In fifty-one

In the least to make it certain that a like immunity

secape was doubtless owing to some slight, though unaccountable, modulanties in the rate of motion

so fortunately, was a question that had still to be

The day following Servadac's return, he and the

most advisable method of proceeding under their

present prospects. Ben Zorf was, as a matter of

had been saked to attend; but he declined on the

ples of taking no interest in the matter. Indeed, the disappearance of his meen had utterly discen-

calculations, there is to be a recorrence of collision

we have now to make is whether we are prepared for the coming shock. I sak my-sif, and I sak you. whether it is in our power, by any means, to avert the evil consequences that are only too Blody to

Count Timescheff, in a voice that seemed to thriff disposal of an over-ruling Providence; human pre-cautions cannot sway the Divine will." "But with the most profound reverence for the will of Providence," replied the captain, "I beg to

we can to escape the threatening mischled. Heaven "And what meens have you to surrest, may I

tangible had hytherto presented itself to his mind.

"One great use of learning," said Count Timus-

pentlemen, you will allow me. I will courserate them; and we shall, perhaps, by taking them seriution, be in a better position to judge whether we can successfully grapple with them, or in any way mitistorm, should be left as it were upon the support There was a coneral attitude of attention. If was surrelining how calmly they proceeded to discuss

the circumstances that looked so threatening and "First of all," resumed the heutenant, "we will

'And the refine fact to be remembered," interposed Servadae, "is that the combined velocity of

"Express speed, and no mistake!" muttered Ben "Just so." assented Procepe, "Now, the two bodies may immunge either directly or obliquely. If the impact is sufficiently oblique, Gallie may do

earth; she may, or she may not, carry off a portion of the earth's atmosphere and substance, and so she may foot away again into space; but her orbit would undoubtedly be deranged, and if we

"Professor Rosette, I suppose," Ben Zoof re-"But we will leave this hypothesis," said the lieutenant; "our own experience has sufficiently shown

us its advantages and its disadvantages. We will

"A great wort upon her face?" saud Ben Zoof, Isughing.

The ceptain held up his figurer to his orderly. making him understand that he should held his "It is, I presume, to be taken for granted," con-

earth is comparatively so large that, in the event of a direct collision, her own motion would not be sensibly returned, and that she would carry the comet along with her, as part of herself,"

"Very little question of that, I should think," said "Well, then," the Ecuternat went on, "what part of this cornet of ours will be the part to some buts

collision with the earth? It may be the equator, where we are: it may be st the exactly engested In any case, it seems hard to foresee whence there is to come the faintest chance of deliverance."

"Is the case so desperate?" asked Servadae, "I will tell you why it seems so. If the side of the comet on which we are resident impinges on the

"Regular inforessest?" said Ben Zoof, where no admonitions could quote reduce to silence. "And it," said the licutement, after a moment's terruption-"and if the collision should occur at

our antipodes, the sudden check to the velocity of situ; and, another thing, we should ren the risk of would be assimilated with the terrestrial atmosphore, and we, supposing we were not dashed to

"But would not our chances of escene be rousiderably better," asked Count Timescheff, "in the of contact?" "Taking the curshined velocity into account," answered the heutemant, "I confers that I fear the

A general silence ensued, which was broken by the gencies occur in the way we have contemplated, I am

driven to the ampleten that we shall be burnt "Bornt abve!" they all exclaimed in a chorus of

If the deductions of modern science he

true, the speed of the comet, when suddenly checked. so intense that the temperature of the comet will be No one having anything definite to allege in reply

to Lautenant Procope's forebodings, they all relapsed into silence, Presently Ben Zoof saked Processe shook his head, "Even so, we should only

"Thus, as I understand," said Ceptain Servadan.

reasted, or drowned. Is that your conclusion, Hen-"I ornfess I see no other alternative," answered

"But lin't there another thing to be done?" said What do you mean?" his mester asked.

"Why, to get off the count before the shock remes." "How could you set off Gallia?" "That I can't say," replied the orderly

"I am not sure that that could not be accomplished," said the ileutenant. All eyes in a moment were riveted upon him, an, with his head resting on his hands, he was manifeetly cognisting a new idea, "Yes, I think it could be accomplished," he repeated. "The propert may appear extravagant, but I do not know why it should be impossible. Ben Zoof has hit the right usli on the

bead; we must try and leave Gellin before the shock." "Leave Gallia! How!" said Count Timescheff, The Neutenant did not at once reply. He continue

distinctly, "By making a balloon!" "A ballnes!" he exclaimed, "Out of the ones-

tion! Balloons are exploded things. You hardly find them in novels. Balloon, indeed!" "Listen to me," replied Proceps. "Perhaps I can convince way that my idea to not so chimerical as od to establish the feasibility of his plan. "If we to humor, and can succeed in loanchone correctors phere. I believe it will transpire that this atmosphere will amplements with that of the earth, and

Count Tomaschoff reflected for a minute, and

The scheme seems touble; and I shall be ready to "Only, remember," continued Procope, "there are

many changes to one against our success. One inour halloon is burnt to ashes. Still, refurtant as I are to acknowledge it, I confess that I feel our note hope of safety rests in our getting free from this

ecens^{4,75} "If the chances were ten thousand to one against us," said Servadso, "I think the attempt ought to be

"But have we hydrogen enough to indate a bal-"Hot air will be all that we shall require," the Bestenant answered; "we are only contemplating

"Ah, a fire-balloon! A montgolfier!" eried Servadar. "But what are you going to do for a cas-"I have thought of that. We must out it out of the

salls of the Debryou; they are both light and strong," rejoined the lieutenant, Count Timescheff Truly during was the plan of which Lieutenant

Process had thus become the originator; but the very existence of them all was at stake, and the they were greeted with a welcome which no appreone of the enterprise it was absolutely necessary to know, obnest to a minute, the precise time at which the collision would occur, and Captain Secvadac undertook the task, by gentle means or by

apperintendence of the construction of the monthe large enough to carry the whole of the twentythree residents in the volcana, and, in order to provide the means of fleeting aloft ling enough to rive time for selecting a proper place for descent,

and keen up the necessary surply of heated air. The sails of the Dabryon, which had set been carefully stowed away in the Hive, were of a texture unusually close, and quite capable of being made sirtight by means of a varnish, the ingredients of which were remembed out of the promiseptraced out the pattern and cut out the strips, and oil houds were employed in seaming them together. persisted in accomplishing her own share of it. this port, and having initiated the Spaniards into professor were the only two members of the com-A month named away, but Servaine found no

ing was soon complete. Issue Hakkabut and the opportunity of getting at the information he had riedered himself to eain. On the sole occasion when was no hurry to get hack to the earth, there need

its mysteries, the task of joining together the cas-

Indeed, as time passed on, the professor seemed to become more and more inaccessible. A pleasant servatory, from which intruders were rigility shut out. But Servadae bided his time. Ha grew more out the exact moment at which the impact would sect to the too reticent astronomer. Meanwhile, the earth's disc was daily increasing

in magnitude; the comet travaled 50,000,000 learner A thaw had now fairly set in. The breaking up of the from ocean was a magnificent spectacle, and ally describe it, was heard in all its solemnity. Little streams of water heren to trickle down the deshare, only to be transformed, as the melting of the formed and carried ranking along by breezes to customed. All those were doubtless but the prelude to atmospheric disturbances of a more startling

A double disaster was the inevitable consequence of the thaw. Both the schooner and the tarten were artiraly destroyed. The hazarrent of the lex nedental on which the ships had been upheared was gradually undermined, like the icohergs of the Arctic of the 12th the huge block collapsed on essent, so that on the following morning nothing remained of the Debryse and the Hansa except the fragments

Although certainly expected, the cutsatrophs could not full to cause a same of general depression. had been broken; the ships were gone, and they had only a balloon to replace them!

To describe Isano Bakkabut's rage at the destruction of the tarian would be impossible! His oaths were simply dreadful; his improcations on the accuraed race were full of wrath. He swore that Servidae and his people were responsible for his

loss; he vowed that they should be sued and made to pay him damages; he asserted that he had been in fact, be became so intolerably abusive, that Survador threatened to put him into irons unless he conducted himself preparty; whereupon the Jew, finding that the centain was in earnest, and would rigging of the yacht, and the car, composed of the twenty-three passengers it was intended to

short a time, merely long grough for making the The necessity was becoming more and more urgate than ever in his resolution to keep his secret.

On the 15th the cornet errored the orbit of Mars. last hour had taken them untwares. The volcano ternal disturbances, and Servadae and his comto some sublan disruption, rushed into the open air. The first object that caught their attention as nate professor, who was acrembling down the

It was no time for condolence. A new marvel arrested every eye, A fresh satellite, in the gloom of night, was ablaing complet-

That satellite was a part of Gallia itself!

like Gamburt's comet, had been severed in twain; The frozment included Cents and Gibraltar, with

THAT would be the consequences of this sudhis people hardly dared to think. The first change that came under their observation was the rapidity of the sun's appearances and disappearances, forcing them to the conviction that although the comet still rotated on its axis from

"We are coming to something?" exclaimed Servadoc, "We have got a year of something like 2.810

"I shouldn't think it would be an easy matter to Servadae laughed, and remarked that they abould It soon became evident that the detached portion ally retresting into space. Whether it had carried sound any other condition for supporting life, and whether it was likely ever again to approach to the to determine. For themselves the all-important rephon was-what effect would the rending avsunder of the comet have upon its rate of progress? and as they were already conscious of a further increase of muscular power, and a fresh diminution of specific gravity, Servadac and his associates could not but wonder whether the alteration in the the expected coincidence with the carth altogether. Although he profused himself incornectent to recoguiree a decided ophiles, Lieutenant Procept

was not revolving round the comet, but was gradu-

manifestly inclined to the belief that no alteration Rosette, no doubt, could arrower the question directly, and the time had now arrived in which he But the professor was in the worst of tempera. usually uncivil whenever any one ventured to speak

tain draw the most favorable conclusions from Rosette's continued irritation. Had the comet been in any way projected from its course, so as to be likely to fall in comme into contact with the earth. the professor would have been quite unable to concoal his astinfaction. But they required to know more than the general truth, and fult that they had no time to lose in getting at the exect details.

The desired opportunity soon came.

On the 18th, Rosette was overheard in furious alllittle cornet. A fine thing, he said, to split in two like a child's toy. It had cracked like a dry nut; and mights't one as well live upon an emploding bomb? -with much more to the same effect. The newand the dispute was beginning to look serious when

Thinking he could turn the wrangling to some good account, so as to service at the information he was so anxiously seeking, the captain pretended to espouse the views of his orderly; he consequently brought upon himself the full force of the profes-

Boottie's language became more and more workert. till Servadac, fargning to be provoked beyond endurance, cried;

"You forgot, sir, that you are addressing the Governor-General of Gallin "Governor-General! humbug!" roared Bosette. "I dany it," said Servadae, "Gallia has lost its chance of setting back to the earth. Gellin has noth-

ing to do with you. Gallia is mine; and you must "And who told you that Gallia is not coing back to the earth?" asked the professor, with a look of withering score. "Why, ign't her mass diminished? Ign't she split

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the captam.
"And gray who told you thus?" again said the professor, with a sneer.
"Everybody. Everybody knows it, of course,"

"Everyloody is very clever. And you always were a very clever scholar too. We remember that of old,

der't we?"
"SD!"
"You nearly mastered the first elements of science, differt you?"

science, diffa't you?"
"Sir?"
"A could to your class?"

"Hold your change, sir!" believed the captain again, so if his super was uncontrollable. "Not I," said the professor. "Hold your brouge I'r repeated Servadae.

"Just because the mass is altered you think the velocity in situred?"
"Hold you tongue!" cried the captain, louder than ever.

"What has mass to do with the critit? Of how many comets do you know the mass, and yet you know their movements? Ignorance!" shouled Woustle

Ben Zoof, really thinking that his master was angry, made a threstening movement towards the professor. "Teach me if you dare?" screamed Bosotte, draw-

ing himself up to the fullest height his dimensive figure would allow. "You shall answer for your conduct before a court of justice!"
"Where? On Gellin?" asked the captain.

"No; on the earth"
"The earth! Pshaw! You know we shall never
get there; our velocity is changed."

"The the earth," repeated the prefessor, with decision.
"Trank!" cried Ben Zood. "The earth will be too far off!!"
"Not too far off for us to come across ber orbit at

recentry of this coming lat of January."

"Thanks, my dear professor—many thanks. You have given me all the information I required;" and, with a low how and a gratious smile, the expeties withdraw. The orderly made an outsile policy.

and, with a low low and a gracous smar, the captain withdrew. The orderly rands an equally politic box, and followed his master. The professor, comptedly neuplanted, was left alron. Thirteen days, then—twenty-six of the original Gallian days, fifty-two of the present—was all the time for reconstate that now remained. Every

preliminary arrangement was hurried on with the greatest carnesiness.

There was a general engeness to be quit of Gallas. Indifferent to the dangers that must necessari attend a hallocon ascert under such unparabiled circumstances, and besides of Liceterant Procepts warming that the slightest check in their progress

world resist in institutional companion, they are seemed to conclude that it must be the simplest thing possible to glode from one atmosphere to another, so that they were quite sampsine as to the successful lance of their enterprice. Captain Serviciae made a point of aboving himself quite anthosisatif in his articlerations, and to Ben Zoof the popus guThe count and the heutement, of colder and less demonstrative temperatures, elike second to realise the possible perils of the unfectalent, but even they were determined to get a hold face upon every defficulty.

The see had now become navigable, and three

to be an any occurs insigned, but three wyages were made to Genris Idanii in the steam launch, consuming the last of their little reserve of cell.

The first wyage had been made by Servadac with anyreral of the sailors. They found the overrish and

The first voyage had been made by Servadae with serveral of the saffers. They found the general and the adjacent building cultu unnigated by the sevenity of the winter weather; numbers of little rivigleds interacted the pasture-land! new plants were springing up under the influence of the semunical

sun, and the luxuriant foliage was tenented by the birds which had flown back from the volume. Summer had almost abruptly succeeded to winter, and the days, though only three hours long, were intensely het.

Another of the voyages to the island had been to collect the dry gram and straw which was nonanary for infiniting the bulloon. Had the halloon been less combessome it would have been conveyed to the island, whence the start would have been effected;

taked, whence the start would have been effected; but as it was, it was more conveniant to bring the combustible material to the balloon.

The last of the coel having been consumed, the fragments of the shipwrecked vessels had to be used day by day for fuel. Halkabats began making

a great initial when he found that they were turning some of the spars of the Hanou; but he was effectually attenced by Ben Zoof, who told him that if he made any more fass, he should be composed to pay 50,000 frams for a balloon-tinket, or also be should be left habited.

By Chrainas Day overything was it readiness for immodize departure. The fectivel was observed with a solemnity still more marked than the anniversacy of the preceding year. Every case looked forward to speading New Year's Day in another splare altogether, and Ber Zoof had already premted Pablo and Nins all sorts of New Year's gifts. It mere seem attracts but the nearer the critical

meanest approached, the loss Hotter Servation and Count Thranched fluid cast yo such other on the subject. Their natural reserve became more apparent; the experiences of the last down years were failing from their similar like a drewn; and the fair image that had been the cause of their original rivalry was over raining as a visitent, between them. The strength of the country of the country of the theory of the country of the country of the ability of the country of the country of the ability of the country of the country of the preparability legaling is his imagination. He hadeed

under the cervicities that he had a work of passits to complete. A post he had left the earth, and a post he must return. Count Timmschaff's desire to return to the world was guite coulded by Leutenant Procopel. The Russian sailors' only thought was to follow their master, wherewer he went. The Spanneria, though

master, wherever he went. The Sparmarch, though they would have been unconcerned to know that they were to remain upon Gellla, were according looking forward with some degree of pleasure to revisiting the plains of Andalunis; and Fine and Public were only intelligent of the proposet of accordwers only intelligent public and the proposet of accord-

sion whatever,

The only resignated was Palvein Rosette, Day

was a never-ending theme of complaint; and just abcoting-stars, and new discoveries might have desveced to increase the intensity of his vision by in the Datoure's medicine short; with hardis fortitude he endured the tortures of the experiment, and all in vain; not a single fresh discovery rewarded

his exflerings. No one was quite exernet from the foverish excitemont which prevailed during the last days of Decomber. Lieutenant Process superintended his final to be inflated. The car was close at hand. Some inflated skins had been attached to its sides, so that descending in the sea at a short distance from the shore. If unfortunately, it should come down in mid-occar, nothing but the happy chance of some nessing vessel could save them all from the cer-

balloon, with its large living freight, would be high that of the earth, but no difficulty in accending was

Gallia was now within \$6,000,000 miles of the sun, consequently not much more than 4,000,000 diminished at the rate of nearly 208,000 miles an hour, the speed of the earth being about 70,000 miles, that of the cornel being fittle less than 1884-000 miles an bour,

It was determined to make the start at two o'clock, three-quarters of an hour, or, to speak correctly 42 minutes 35.6 seconds, before the time predicted by the professor as the instant of collision. An hour previously the balloon was juriated with perfect success, and the car was securely attached

to the network. It only awaited the stowage of the Isaac Hakksbut was the first to take his place in noticed that his waiet was encompassed by an enermous girdle that bulged out to a very extra-

ordinary extent, "What's all this, Hakkahut?" be "It's only my little bit of money, your Excellency; my modest little fortune-a mere hagatelle," said

"And what may your little fortune weigh?" in-"Only about sixty-six pounds!" said Issae. "Sixty-six pounds!" cried Servadae, "We haven't

reckened for this."

"Bixty-six pounds?" repeated Servadec. "We can hardly earry ourselves; we can't have any dead weight here. Pitch it out, man, nitch it out!" "Out with it, I say!" erled Servedse "What, all my money, which I have saved so long, and tooled for so hard?" "It can't be belowd," said the captain, unmoved,

"Merciful heavens?" bersn the Jew.

"Now, old Nicodemus, listen to me," interposed

above his mency; he made a ismentable outcry about it, but he unfastened his girdle at last, and not it out of the car. Very different was the case with Palmyrin Ros-

ette. He avowed over and over again has intention should be trust himself to a believe, that would His volubility was brought to a sudden check by ado, to take him in their arms and put him quietly To the great regret of their owners, the two horses and Nime's net goet were obliged to be left behind. The only greature for which there was

found a place was the carrier-pigeon that had wadac thought it might probably be of service in erly, had taken their piaces, Servadae said, "Get in, "After you, sir," said Ben Zoof, respectfully, "No, no!" insisted Servadao; "the captain must be the last to leave the abto I'

over the side of the ear. Servadac followed. The cards were sut. The balloon rose with stately calma ness into the air.

WHEN the balleon had reached an elevation of about 2,500 yards, Lieutesont Proceps de-termined to resintals it at that level. A wirework stove, suspended helow the casing, and filled with lighted her, served to keep the air in the in-

Beneath their feet was extended the basin of the raltar, which might have been expected in the week, had otterly disameared. On the couth roon the volcano, the extremely of the promoutory that jutted of the sea; whilst in every direction the strange soil, with its commuters of tellurium and gold.

gleamed under the sun's rays with a perpetual Appearently rising with them in their scoret, the horizon was well-defined. The sky above them were

AMAZING STORIES

perfectly clear; but away in the northwest, in opasition to this sum, desired a new sphere, so arrand that it could not be an antereot, but like a dimension. It was the fragment that the internal convaison had read from the surface of the count, and which was now many thousands of linguing away, which was now many thousands of linguing away, justed. Durking the history of doublight, it was far from distinct, but after mightful it was far as an experiment of the country of the count

definite later.

The object of the barretizal flow, which was a possible for the control of the which was applied provide down obligated broaded the same that the control of the distribute obligate and control or the distribute obligate and control or the distribute obligate of the distribute obligate of the distribute obligate of the article of the distribute obligate the certification of the distribute of the distribute

ment, these were the vapors that pervoided the terrestrial almosphere.

But as the acrossats were being hurried on at a lispeed of 70 miles a second, this vagues aspact of the curris seen developed listelf into definite outlines. Mountains and plains were as longer confused, this is distinction between sea and shore was more plainly

dentities, and instead of being, as it were, depicted on a map, the surface of the earth appeared as though medicalled in relia? Twenty-seven minutes past two, and Gallia is only 22,000 miles from the terrestrial subtree quicker

and quicker is the velocity; ten minutes later, and they are only 36,000 miles apart! The whole configuration of the earth is clear. "Europe! Russia! France!" shouted Procope, the

ecunt, and Serwales, almost in a breath.

And they are not mutation. The eastern bandsphere like before them in the full blace of light, and
there is no possibility of arror in distinguishing
certificant from continues.

The suprise only kindled their caustion to yet kerner intensity, and only kindled the hard to describe the actions with the hard to describe the actions with the grand at the puretion of the hard to the grand at the purecise on them, but imagination overlayed all endected to the danger; and everything was absorbed in the one idea that they were again within reach of that errice of humselfy from which they had of that errice of humselfy from which they had

supposed themselves severed forever.

And, terly, if they entish how pound to study it, that purporums of the states of Europe which was that purporums of the states of Europe which was the translate reconstitution of the other, show associated them. There was Refered, there associated them, there was Refered, the produced the training relations on the other, show associated them. There was Refered, the states of the s

left pow reeting upon Turkey, its right upon Mount Caucagus; Austria recombled a buge out curied up

and slopping a wanthful sleep; Spain, with Pectugal as a paramel, like an unfuried borner, fluided from the externity of the continent; Turker, like an iswith the one term, and the line of Greece with the other, Italy, as it were a foot and lag encoused in a light-ditting body, was jugging offirly with the islight-ditting body, was jugging offirly with the formulable hardest instance, and the contraction of formulable hardest instance in the leaver of Germany, its edge plut pressing the freedless of Frames;

whilst France Itself suggested a vigorous torso with Parts at the heast. All at once Ben Zoof broke the ellence; "Montmartre! I see Montanterin" And, smile at the absurdity as others might, nothing could inside the worthy orderly to surrender his belief that he outd actually make out the features of his helved home.

rardity as others might, nothing could indice the weetly endry by surreader in both that he could not be sufficient to the surreader in both that he could be the surreader in the sum of the surreader by the approximity such was Pulmytin South. Leading ever the side of the cut of sound surreader to the sum of the sum o

all was only broken by the order to explaint, the strone, that the abilities might retain its necessary, level, Berwike and the count continued to goes upone the seath with an expenses that almost amounted to raw. The balloon was slightly in the rear of Collin, a drawmarizes that augment storaged afforerably, because it might be presented that if the center, proceeding the abrevial to be sufficience of transfer from one situation to the other case of transfer from one situation to the other, and The next question of amotive yaw, where would

the bolloon alight! If upon term forms, would it be in a place where adequate resources for safety would be at hand! If upon the cowar, would any passing vessel be within half to recent them from their critical position? Truly, as the count overved to his comerains, none but a Divine Platcord steer them row.

"Forty-two minutes part!" said the Bestemant, and his voice seemed to the'll through the silence of expectation.

There was not 30,000 miles between the comet

and the earth!
The calculated time of impact was 2 hours, 47
minutes, 38-6 records. Five minutes more and
collision must cause!
But was it set Jest at this more than the

Procope observed that the const devoked sensibly is an oblique source. Was it possible that after all collision would not occur?

The deviation, however, was not grant; it did not justify any anticipation that Gellia would marely

justify any anticipation that Gailla would merely grow the earth, as it had done before; it left it cortain that the two hodies would inevitably implage.

"No doubt," said Ben Zoof, "this time we shall stick together."

Another thought occurred. Was it not only too Bady that, in the fusion of the two atmospheres. The helicon itself, in which ther were being conOFF ON A COMET 191
Gallian should survive to tell the tale of their . In fact, they were sometimes there a rolls from

Moments were precises; but Hecter Servadae reselved that he would adopt a device to secure that at least sense record of their examinon in salar distances should survive themselves. Tearing a leaf from his not-beek, he wrote down the name of the comet, the list of the fragments of

the same of the count, the list of the fragments of the earth it had carried off, the remost of his companiers, and the date of the cemet's aphelion; and having subscribed it with his signature, tursed to Kina and todi her he must have the carrier pigeon which was needing in her beach. The child's owns filled with bears; but she did not

The child's eyes filled with bears; but she did not say a word, and insprinting a kiss upon its soft plamage, she surrendered it at ones, and the meseage was harriedly finished to fit nock. The bird wheeled round and round in a few circles that wisend in their damoter, and quickly such to m.

ened in their diameter, and galekly suck to an altitude in the comet's atmosphere much inferior to the helicon.

Bence misutes more were thus consumed and the

internal of distance was reduced to less than \$,000 miles.

The velocity becama incomerivably great, but the

there was nothing to disturb the equilibrium of the car in which they were making their serial adventure.

"Forty-six minutes!" announced the Heutenani.

The glowing expanse of the earth's disc seemed like a vasi furnel, yawning to receive the cenet and its atmosphere, believe and all, into its open mouth. "Forty-seven!" gried Procepe. There was half a minute yet. A thrill yau through

every win. A vibration quivered through the aimsphere. The ballion cloquated to its utmost stretch, was manifestly being sucked into a vertex, Perry passessipper in the quivering our involventurally ching supercollecting supermodically to its often, and so the two atmospheres amalgamated, decade accumulated in heavy masses, involving all arrend in deman electrometers.

mer on the scene.

In a mystery every one found himself upon the earth again. They sculd not explain it, but here they were once more upon terrestrial soil; in a amoun they had left the earth, and in a similar awoun they had come back!

awoon they had come back!

Of the balloon not a ventige remained, and centrary to previous computation, the comet had marely grazed the carth, and was traversing the regions of succe, again far away!

CHAPTER XIX

N Algoria, captain?"
"Yee, Res. Zoof, is: Algoria; and not far from
Modaganam." Such were the first words which
after thirr return to consciences, ware suchamped
between Servadae and his orderly.
They had recibed so long in the province that
they could not for a memori be ministen us to their
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cal agot where they had suitted it.

they be all recovered from the bentiference connected by the acide they started of re- body and most by the acide they started or a body and extreme surprise to find to yramptom of the least architectural supplies as they went share. The popudant properties of the started started the started party must he patterns that were most with the acidet colority the sum was rising as the cost such acide to color; the sum was rising as the cost such that the started started the started that the started that the started started the started that the started the inhabitants, as to a collision with a cost, or most constraint and the started that the star

Mostaganem, and in the course of an hour, when

surely would, a panie little short of the certified approach of the milleanium. "Nobody appects us," said Servadae; "that is very certain."
"No, infeed," answered Ben Zoof, with a sinh; he

was manifestly disappointed that his return to Montagaman was not welsomed with a triumphal proception.

They reached the Mancara gato. The first perseen that Servadae recognized were the two friends that the shall invited to be his seconds in the shall two

again of the 8th Artillery. In return to his somewhat businsing salutation, the colonel greeted him bastuly, "Ahl Serwake, eld fellow! is it you?" "I. reyeds," said the ceptain. "Where on earth here you been do all this time? In the name of peace, what here you been doing with

yourself?"
"You would perer believe me, colonel," answered
Servadas, "if I were to full you; so on that peint I
all better hold my longue."
"Blang your mysteries?" said the colonel; "tell
"Store you bear me," reglied Servadas;
"You shale hands with me in cernest, that I may be
use I am not direnting." Holder Servadas had
seen I am not direnting."

made up his raind, and to amount of permutation could induce him to divulge his beredible expericess.

Arrives to trive the subject, Screadac took the certicust opportunity of aiding, "And what about Madaros do L——" exclaimed the colonel take-"Madaros de L——" exclaimed the colonel take-

ing the words out of his mouth; "the lady is murried long apo; you did not suppose that she was going to wait for you. "Out of sight, out of mind," you know."
"True," reglied Serwahe; and turning to the count he said, "Do you hear that? We shall not

count he said, "Do you hear that? We shall not have to fight our dual after all,"
"Most happy to be excussed," rejoined the count. The virule took each other by the hand, and were united hemselvih in the bonds of a sincere and confiding twiscolable.

fiding friendship.

"An immense relief," said Servadae to himself,
"that I have no occasion to finish that confounded
world."

"that I have no occasion to make that confounded roundel"

It was agreed between the captain and the count that it would be desirable in every way to maintain the most rigid silence upon the subject of the inexplicable phenomena which had come within their



HOW THIS MAN WON SUCCESS

As an Electrical Expert

THIS BIG-PAY FIELO?

PTE - Mail the step in the first of a state of the state

CCHOOL OF ENGINEERING Sur Aton of Milwoules

and the widows may been to believe the first problem. We shall be supported to the problem of the state of the problem of the problem of the state o -Bidgel of Proceeding to the process of the process to people and the to fir if it is about the control of Administra Endough - I as I make Course to sure of surebox Spirite Spirite, and games for administration tracks at only an Education

Salls Seles & Senton-) north

dergone no change, but they was prudent to keep their bewilderment entirely to themcelves. Nothing induced them

The very next day the small community was broken un. count and the lieutenant, started for Russia, and the Spenfards, provided, by the count's liberallty, with a competence

shores. The leave taking was accomplished by genuine tokens of regard and goodwill For Irace Haldrabut alone there was no feeling of regret. Double ruised by the loss of his tarten, and by the abandon-

Zoof sententiously remarked. "Perhans old Jehoram is male ing money in America by exhibiting himself as the latest errival from a cornet!" But however great was the

dan might make on his part nothing could induce Profession Results to conceal his experieaces. In spite of the dontal such a cornet as Guilla at all not only detailing his own advantures, but setting forth.

with the most elaborate precision, all the elements which

an uniremertant refuselty dewhole dehete under the title of

sis." In reply to this impertinent oriticism of his labors, tion that a fragment of Gitualtar was still traversing the that it was the great disappointment of his his that he

Public and Tittle Nine were adopted, the one by Serveder for the supervision of their guardians, were well educated and cared for. Some years later, Colonel (no longer Captain) Servades, his heir slightby streeked with evey, had the pleasure of sceing the handnome voune Spaniard melted in grown into a sharming sid ppen whom the count heatened seemed Hosly, to be the Adam

The career of the comet was Servadae nor his orderly could doubt. Anybow, they were firmer and more confiding friends than ever.

One day, in the covirous of Montgartre, where they were to the experiences in the denths of Nina's Hive; but stormed sheet and sold "Hors-His master could only renly,

is a man to believe?" THE END